Volume II of V, Appx1848 to Appx6653 No. 23-1922

In the United States Court of Appeals for the Federal Circuit

BEARBOX LLC, AUSTIN STORMS,

Plaintiffs-Appellants,

v.

LANCIUM LLC, MICHAEL T. McNAMARA, RAYMOND E. CLINE, JR.,

Defendants-Appellees.

Appeal from the United States District Court for the District of Delaware, No. 1:21-cv-00534-GBW-CJB
The Honorable Gregory B. Williams

CORRECTED JOINT APPENDIX

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Permatron_Spec_Sheet.pdf	2015-03-02	TX172	Appx11373
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Email BAML deck	2018-03-29	TX462	Appx11817
Lancium - BAML_April_10th.pptx	2018-03-29	TX463	Appx11828
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Countersigned_EMS_Lancium_0715 19.pdf	2019-07-15	TX497	Appx12337
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ATTORNEYS' EYES ONLY – HIGHLY CONFIDENTIAL – SUBJECT TO PROTECTIVE ORDER

(ii) economic disp	oatch revenue	through	arbitrage.	See, e	e.g.,	LANCIUM	00028482,
LANCIUM00033064	, <u>LANCIUM(</u>	00033065,	LANCIUM	1000308	338,	LANCIUMO	00028485,
LANCIUM00033062	, <u>LANCIUM0</u>	0024122,	LANCIUN	M000330	<u>055</u> ,	LANCIUM	00033240,
LANCIUM00030839	(spreadsheet a	attachments	LANCIU	M00030	<u>)840</u> ,	LANCIUM	00030841,
LANCIUM00030842), <u>LANCIUM</u>	00030782,	LANCIUN	1000332	<u>215</u> ,	LANCIUMO	00024173,
LANCIUM00029321	, <u>LANCIUM00</u>	<u>018672</u> . La	ncium also	continu	ed to	innovate its	software-
controlled fast rampi	ng (e.g., operati	ons control), overall sy	stem de	sign ((e.g., site lay	outs), and
high-heat tolerance m	odular container	rs (e.g., scop	e changes; p	panel des	sign; s	structural desi	ign; 2MW
module designs issued	d for construction	on; 4MW V	-box iteratio	ns; mine	er den	sity designs;	demo box
reconfiguration plan	s; removal of	evaporati	ve cooler).	See,	e.g.,	LANCIUMO	00019208,
LANCIUM00019212	, LANCIUMO	00019217,	LANCIUM	1000192	222,	LANCIUMO	00019227,
LANCIUM00019125	, <u>LANCIUMO</u>	00019130,	LANCIUM	<u> 1000191</u>	39,	LANCIUMO	00019143,
LANCIUM00019151	, LANCIUMO	00019155,	LANCIUM	1000188	<u>898</u> ,	LANCIUMO	00018904,
LANCIUM00025517	, <u>LANCIUMO</u>	00025518,	LANCIUM	1000254	<u>19</u> ,	LANCIUMO	00025420,
LANCIUM00025496	LANCIUM0	<u>0019105</u> ,	LANCIUM	1000191	<u>09</u> ,	LANCIUMO	00019116,
<u>LANCIUM00019124</u> . Additionally, Lancium worked with stakeholders and hired a consultant to							
analyze, develop, and advance the regulatory and protocol exemptions and changes that would be							
necessary to integrate its fast-ramping load technology into the ERCOT power grid. See, e.g.,							
LANCIUM00034586	, LANCIUMO	00034587,	LANCIUM	1000336	<u>660</u> ,	LANCIUMO	00033662,
LANCIUM00033672	, LANCIUMO	00033656,	LANCIUM	1000347	<u>′55</u> ,	LANCIUMO	00033645,
LANCIUM00033648	, <u>LANCIUMO</u>	00033628,	LANCIUM	1000336	532,	LANCIUMO	00033629,
LANCIUM00033617	. Lancium also	o continued	discussions	s with C	GlideP	ath for opera	ation of a
third-party datacenter container at a GlidePath site served by Lancium power skids and under							

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC and AUSTIN STORMS,)	
Plaintiffs,)	
V.)	C.A. No. 21-534-MN-CJB
LANCIUM LLC, MICHAEL T. MCNAMARA, and RAYMOND E. CLINE, JR.,)	
Defendants.)	

DEFENDANTS LANCIUM LLC, MICHAEL T. MCNAMARA, AND RAYMOND E. CLINE, JR.'S OPENING BRIEF IN SUPPORT OF THEIR MOTION TO DISMISS COUNTS V AND VI OF THE SECOND AMENDED COMPLAINT

Dated: March 16, 2022 BARNES & THORNBURG LLP

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Bavarian Nordic A/S v. Acambis Inc., 486 F. Supp. 2d 354 (D. Del. 2007)
Bell Atl. Corp. v. Twombly, 550 U.S. 544 (2007)
Bihm v. Deca Systems, Inc., 226 So. 3d 466 (La. Ct. App. 2017)
Bonito Boats, Inc. v. Thunder Craft Boats, Inc., 489 U.S. 141 (1989)
CamSoft Data Systems, Inc. v. Southern Electronics Supply, Inc., 2019 CA 0731, 2019 WL 2865359 (La. Ct. App. July 2, 2019), writ denied, 282 So. 3d 1071 (La. 2019)
Constance v. Austral Oil Expl., Co., Nos. 12-1252 & 12-1253, 2013 WL 6578178 (W.D. La. Dec. 13, 2013)
Eaton Corp. v. Geisenberger, 486 F. Supp. 3d 770 (D. Del. 2020), aff'd in part, vacated in part on other grounds, remanded sub nom. Siemens USA Holdings Inc v. Geisenberger, 17 F.Supp. 4th 393 (3d Cir. 2021)
Ferrara Fire Apparatus, Inc. v. JLG Indus., Inc 581 Fed. App'x 440, 443–44 (5th Cir. 2014)
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Pennsylvania Emp., Benefit Tr. Fund v. Zeneca, Inc., 710 F. Supp. 2d 458 (D. Del. 2010)

Pronova Biopharma Norge AS v. Teva Pharm. USA, Inc., 549 F. App'x 934 (Fed. Cir. 2013)
Quealy v. Paine, Webber, Jackson & Curtis, Inc., 475 So. 2d 756 (La. 1985)
Selective Ins. Co. v. Phila. Indem. Ins. Co., No. N17C-08-325, 2018 WL 2215885 (Del. Super. Ct. May 15, 2018)
Shaw v. Restoration Hardware, Inc., No. 21-1540, 2022 WL 343458 (E.D. La. Feb. 4, 2022)
<i>Ultra-Precision Mfg., Ltd v. Ford Motor Co.</i> , 411 F.3d 1369 (Fed. Cir. 2005)
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Statutes
35 U.S.C. § 102
35 U.S.C. § 256
Louisiana Civil Practice and Remedies Code, Title 51, Section 13-A

I. INTRODUCTION

Despite having a second bite at the apple, Plaintiffs BearBox LLC ("BearBox") and Austin Storms' ("Storms") (collectively, "Plaintiffs") re-pleaded conversion claim (Count V) and unjust enrichment claim (Count VI) both still fail as a matter of law. Indeed, Plaintiffs' unjust enrichment claim is still precluded by the availability of other remedies for the alleged conduct. And Plaintiffs' conversion claim does not—and cannot—allege a necessary element of conversion: that Plaintiffs were deprived of use or possession of tangible, movable property. Accordingly, the Court should dismiss Counts V and VI of Plaintiffs' Second Amended Complaint, with prejudice.

II. PROCEDURAL HISTORY

On April 14, 2021, Plaintiffs filed their original Complaint against Defendants, which included seven counts asserting claims for: (1) correction of inventorship for U.S. Patent No. 10,608,433 ("the '433 patent") to list Austin Storms as the sole inventor; (2) an alternative claim for correction of inventorship for the '433 patent to list Storms as a co-inventor; (3) conversion; (4) unjust enrichment; (5) trade secret misappropriation under the federal Defend Trade Secrets Act; (6) trade secret misappropriation under Texas state law; and (7) negligent misrepresentation. See D.I. 1. On May 3, 2021, Defendants filed their Answer and Counterclaims disputing each of Plaintiffs' claims and asserting several affirmative defenses and counterclaims, including that Plaintiffs failed to state a claim for trade secret misappropriation. See D.I. 13.

On May 24, 2021, in lieu of answering Defendants' Counterclaims, Plaintiffs filed an Amended Complaint ("First Amended Complaint"). D.I. 19. The First Amended Complaint withdrew Plaintiffs' trade secret counts, but maintained Plaintiffs' other claims. On June 28, 2021, Defendants filed their Motion for Judgment on the Pleadings seeking dismissal of Plaintiffs' claims for conversion, unjust enrichment, and negligent misrepresentation. D.I. 32. On January 18, 2022,

Your Honor issued his Report and Recommendation ("R&R") recommending granting Defendants' Motion, but allowing Plaintiffs leave to attempt to re-plead their unjust enrichment and conversion claims. D.I. 92. On February 2, 2022, Judge Noreika adopted the R&R. D.I. 97. On February 16, 2022, Plaintiffs then filed their Second Amended Complaint, which not only attempts to re-plead conversion and unjust enrichment but also attempts to reintroduce the Trade Secret Counts. *See* D.I. 103. On March 3, 2022, Lancium filed its Motion to Strike the Trade Secret Misappropriation Counts in the Second Amended Complaint ("Motion to Strike," D.I. 111). Briefing on the Motion to Strike is now complete and that motion is pending.

III. SUMMARY OF ARGUMENT

- 1. Plaintiffs' unjust enrichment claim should be dismissed because other remedies are available for the alleged conduct, which precludes this claim.
- 2. To the extent Plaintiffs' unjust enrichment claim is based on Defendants' alleged use of non-confidential information, it is preempted by federal patent law and should be dismissed.
- 3. Plaintiffs' conversion claim should be dismissed because Plaintiffs have not alleged—and cannot allege—that they were deprived of use or possession of tangible, movable property, which is a necessary element of conversion under Louisiana law.

IV. CONCISE STATEMENT OF THE FACTS

On February 13, 2018, Lancium filed a patent application, for which McNamara and Cline are inventors, that published as WO 2019/139632 A1 (the "'632 application"). D.I. 23 at Counterclaims ¶¶ 9-10; D.I. 26 ¶ 10. The '632 application is titled "Method and System for Dynamic Power Delivery to a Flexible Datacenter Using Unutilized Energy Sources" and explains that, for example, its inventions are useful for "[b]lockchain miners" because "[t]he intensive computational demand of blockchain applications makes the widespread adoption of blockchain

technology inefficient and unsustainable from an energy and environmental perspective. D.I. 23-1 at Cover, ¶¶ 19-20.

In May 2019, more than 14 months after filing the '632 application, McNamara attended an industry conference where he met Storms. D.I. 103, ¶¶ 33-34; D.I. 23, at Answer ¶ 32. Plaintiffs allege that Storms then told McNamara about "BearBox's technology" that purportedly "generally relates to an energy-efficient cryptocurrency mining system and related methods that reduce the inefficiency and environmental impact of energy-intensive mining operations by better utilizing available energy resources to increase the stability of the energy grid, minimize a mining operation's impact on peak-demand, and also alleviate energy oversupply and undersupply conditions." D.I. 103, ¶ 2. Storms alleges that he communicated with McNamara about "BearBox's technology" through "conversations, emails, and text messages," including a conversation at a dinner (D.I. 103, ¶ 33) and alleges that "Storms last communicated with McNamara on May 9, 2019." D.I. 103, ¶ 36.

Months later, in October 2019, Lancium filed a provisional patent application that matured into U.S. Patent No. 10,608,433 (the "'433 patent") for which McNamara and Cline are also the named inventors. See D.I. 103-1 at 1. In August 2020, Lancium filed a patent infringement suit against a company called Layer1 Technologies, Inc. ("Layer1") asserting infringement of the '433 patent. D.I. 103, ¶ 52; D.I. 23 Answer ¶ 44. Plaintiffs acknowledge that they became aware of the Layer1 lawsuit "on or about August 17, 2020" but did not contact Lancium at this time or make any claim to have invented the patented technology. D.I. 103, ¶ 54. Then, around March 8, 2021, Plaintiffs read a press release announcing that "Layer 1 has licensed Lancium's intellectual property and Lancium will provide Smart ResponseTM software and services to Layer1." D.I. 103, ¶ 57.

A few weeks later, on April 14, 2021, Plaintiffs initiated this lawsuit alleging Storms should have been listed as an inventor on the '433 patent. D.I. 1. Plaintiffs' Second Amended Complaint, the operative complaint, alleges that "[t]his is an action seeking correction of the named inventors of a United States patent under 35 U.S.C. § 256," and "[a]s such, this action arises under the laws of the United States." D.I. 103, ¶ 13. Likewise, Plaintiffs' claims for correction of inventorship assert that "[t]hrough omission, inadvertence, and/or error Storms was not listed as an inventor on the '433 patent and the currently listed inventors on the '433 patent were improperly listed." *Id.*, ¶ 60. Count I further asserts that "Storms is the sole inventor of the subject matter claimed in the '433 Patent," and Count II asserts that "[i]n the alternative, Storms is a joint inventor of the subject matter claims in the '433 Patent and should be added to the individuals currently named as inventors on the '433 Patent." D.I. 103, ¶¶ 59, 63. Additional allegations that Defendants McNamara and Cline were wrongly identified as the inventors of the '433 patent are found throughout the Second Amended Complaint. *See, e.g.*, D.I. 103, ¶¶ 1, 5, 7, 46, 48, 53.

Plaintiffs' original claims for conversion and unjust enrichment were likewise based on the allegedly incorrect inventorship of the '433 patent. As such, the Court concluded that these claims were preempted by federal patent law. *See* D.I. 92, at 7, 9; *see also* D.I. 97. Plaintiffs have repleaded these claims, which are now based on Defendants' alleged use of "BearBox's technology, including system designs, documents, data, and know-how" to "modify their Smart ResponseTM software." *See* D.I. 103, ¶¶ 85, 87, 92, 96.

V. ARGUMENT

A. Legal Standards

"When presented with a motion to dismiss for failure to state a claim pursuant to Rule 12(b)(6), district courts conduct a two-part analysis. First, the Court separates the factual and legal elements of a claim, accepting all of the complaint's well-pleaded facts as true, but disregarding

any legal conclusions. Second, the Court determines whether the facts alleged in the complaint are sufficient to show a . . . plausible claim for relief." *Eaton Corp. v. Geisenberger*, 486 F. Supp. 3d 770 (D. Del. 2020), *aff'd in part, vacated in part on other grounds, remanded sub nom. Siemens USA Holdings Inc v. Geisenberger*, 17 F. 4th 393 (3d Cir. 2021) (internal citations omitted).

A legally sufficient complaint must establish more than a "sheer possibility" that Plaintiffs' claim is true. *Ashcroft v. Iqbal*, 556 U.S. 662, 678 (2009). It need not contain detailed factual allegations, but it must go beyond labels, legal conclusions, or formulaic recitations of the elements of a cause of action. *Bell Atl. Corp. v. Twombly*, 550 U.S. 544, 555 (2007). "Where a complaint pleads facts that are 'merely consistent with' a defendant's liability, it 'stops short of the line between possibility and plausibility of entitlement to relief." *Iqbal*, 556 U.S. at, 678 (quoting *Twombly*, 550 U.S. at 557). If there are insufficient factual allegations to raise a right to relief above the speculative level, the claim must be dismissed. *Twombly*, 550 U.S. at 555.

B. Plaintiffs' State Law Claims Should Be Dismissed Because They Fail As A Matter Of Law

As with their First Amended Complaint, Plaintiffs' Second Amended Complaint does not specify under which state's law Plaintiffs assert their claims for conversion and unjust enrichment. See D.I. 103. However, Plaintiffs have affirmatively asserted a claim for trade secret misappropriation under Louisiana law. See id. at Count IV ("Trade Secret Misappropriation Under Louisiana Civil Practice and Remedies Code, Title 51, Section 13-A"). In addition, as the Court noted in its Report and Recommendation on Defendants' previous Motion for Judgment on the Pleadings, "both parties agree[d] that Louisiana law applies to the state law claims at issue here," which included claims for conversion and unjust enrichment. D.I. 92 at 5 n.4.

Moreover, under the "most significant relationship" test applied in Delaware to resolve conflict of laws issues, Louisiana law applies to the extent a conflict of laws exists. *Pennsylvania*

Emp., Benefit Tr. Fund v. Zeneca, Inc., 710 F. Supp. 2d 458, 466 (D. Del. 2010) (Delaware applies the "most significant relationship" test for conflicts of law); see also Bavarian Nordic A/S v. Acambis Inc., 486 F. Supp. 2d 354, 361 (D. Del. 2007). This is because both BearBox and Storms are located in Louisiana, D.I. 103, ¶¶ 8-9, and any harm they allegedly suffered also would have occurred in Louisiana. See Selective Ins. Co. v. Phila. Indem. Ins. Co., No. N17C-08-325, 2018 WL 2215885, at *3 (Del. Super. Ct. May 15, 2018) ("[T]he Delaware Supreme Court held 'the law of the state where the injury occurred should apply unless, with respect to the particular issue, some other state has a more significant relationship" (quoting State Farm Mut. Auto. Ins. Co. v. Patterson, 7 A.3d 454, 457 (Del. 2010)); see also Abbott Lab. v. NutraMax Prod., Inc., 844 F. Supp. 443, 446 (N.D. III. 1994) ("The place of injury usually defines the locus of a cause of action" involving intellectual property, "and the damage to intellectual property rights is usually realized where the owner of the protected rights suffers the damage"); Jeffers v. Kerzner Int'l Hotels Ltd., 319 F. Supp. 3d 1267, 1271 (S.D. Fla. 2018) ("Generally, in tort cases, the location where the injury occurred is the decisive consideration in determining the applicable choice of law."). Accordingly, Louisiana law governs Plaintiffs' unjust enrichment and conversion claims.

But as set forth below, Plaintiffs' unjust enrichment and conversion claims each fail as a matter of law and should be dismissed with prejudice.²

¹ Moreover, no other state has a more significant relationship to Plaintiffs' claims as Defendants are located in both Texas and California, *see* D.I. 23, ¶¶ 8-10, and there is no single state where the alleged conduct causing Plaintiffs' purported injury occurred or where any relationship between the parties is centered. *Pennsylvania Emp.*, *Benefit Tr. Fund*, 710 F. Supp. 2d at 467-68.

² As set forth in Defendants' Letter to the Honorable Christopher J. Burke (D.I. 112) and their reply letter (D.I. 114) in support of the Motion to Strike the Trade Secret Misappropriation Counts in the Second Amended Complaint (D.I. 111), Plaintiffs trade secret claims should also be stricken.

1. Plaintiffs' Unjust Enrichment Claim Fails As a Matter of Law Because Other Remedies Are Available For the Alleged Conduct

Despite Plaintiffs' attempt to re-plead their unjust enrichment claim, this claim fails as a matter of law because it is still based on the same conduct as their other claims. One of the elements of unjust enrichment under Louisiana law is that "there must be no other remedy at law available to plaintiff." *Baker v. Maclay Properties Co.*, 94-1529 (La. 1/17/95), 648 So. 2d 888, 897. Accordingly, the Supreme Court of Louisiana has explained that "the remedy of unjust enrichment is subsidiary in nature, and shall not be available if the law provides another remedy. The unjust enrichment remedy is only applicable to fill a gap in the law where no express remedy is provided." *Walters v. MedSouth Rec. Mgmt., LLC*, 2010-0353 (La. 6/4/10), 38 So. 3d 243, 244 (internal quotations and citations omitted).

Significantly, the court in *Walters* made clear that the relevant inquiry is not whether a plaintiff can actually prevail on an alternative claim, but rather whether there is a "gap in the law" such that no other legal framework governs the conduct alleged. Thus, it is "of no moment that plaintiff's tort claims have been held to be prescribed. The mere fact that a plaintiff does not successfully pursue another available remedy does not give the plaintiff the right to recover under the theory of unjust enrichment." *Id.* "In other words, even though a plaintiff may not succeed when it pursues its other available remedies, there is no cause of action in unjust enrichment if such a remedy exists." *Shaw v. Restoration Hardware, Inc.*, No. 21-1540, 2022 WL 343458, at *6 (E.D. La. Feb. 4, 2022) (granting motion to dismiss unjust enrichment claim); *see also Zaveri v. Condor Petroleum Corp.*, 27 F. Supp. 3d 695, 701–02 (W.D. La. 2014) ("As correctly held by Judge Feldman of the Eastern District, under Louisiana law, an unjust enrichment claim is a 'subsidiary' claim, not an alternative claim, which cannot be pursued when Louisiana law affords any other legal remedy.") (citing *JP Mack Indus. LLC v. Mosaic Fertilizer, LLC*, 970 F. Supp. 2d

516, 521 (E.D. La. 2013) ("[T]he availability of another remedy bars a plaintiff's claim for unjust enrichment, regardless of whether the plaintiff prevails in his pursuit of those other remedies.")); Constance v. Austral Oil Expl. Co., No. 2:12-CV-1252, 2013 WL 6578178, at *9 (W.D. La. Dec. 13, 2013) ("Unjust enrichment is a specific cause of action that may not be asserted against a defendant as a mere catchall or safety net in the event that a plaintiff fails to succeed on the merits of his or her other claims.").

Indeed, unjust enrichment is considered "a *remedy of last resort* under Louisiana law." *Zaveri*, 27 F. Supp. 3d at 702 (W.D. La. 2014) (internal quotations omitted). Thus, as the Fifth Circuit held in *Ferrara Fire Apparatus, Inc. v. JLG Indus., Inc.*, "[t]he important question is whether another remedy is available, not whether the party seeking a remedy will be successful." 581 Fed. App'x 440, 443–44 (5th Cir. 2014) (applying Louisiana law). Moreover, unjust enrichment may not be asserted against a defendant "as a mere catchall or safety net in the event that a plaintiff fails to succeed on the merits of his or her other claims." *Id.* (citation omitted).

Here, Plaintiffs unjust enrichment claim is clearly based on the same alleged conduct as its conversion and trade secret misappropriation claims: the alleged use of "BearBox's technology" to improperly modify Lancium's Smart ResponseTM software. Indeed, Plaintiffs' unjust enrichment claim alleges that they "conferred a benefit on Defendants by providing them valuable technology, specifically BearBox's technology, including system designs, documents, data, and know-how" and "Defendants used Plaintiffs' system designs, documents, data, and know-how to modify their Smart ResponseTM software to function as BearBox's technology did, [and] [a]s a result, Defendants are deriving an unjust benefit from exploiting BearBox's property." D.I. 103, ¶¶ 92, 96. This is the same basis as their conversion claim, which alleges that "Defendants intentionally and willfully assumed dominion and control over BearBox's technology, including

system designs, documents, data, and know-how and improperly used it to modify their Smart ResponseTM software." D.I. 103, ¶ 87. Plaintiffs' conversion claim additionally alleges that "[d]espite providing Defendants with system designs, documents, data, and know-how that allowed Defendants to modify their Smart ResponseTM software, and corresponding system designs, Defendants have not compensated or recognized Plaintiffs for the use of BearBox's technology," which "constitute[s] an improper and unauthorized use of Plaintiffs' property." D.I. 103, ¶ 89.

Likewise, Plaintiffs' trade secret misappropriation claims allege that "Defendants misappropriated Plaintiffs' trade secrets when they used BearBox technology, without Plaintiffs' authorization, in at least its Smart ResponseTM software." D.I. 103, ¶¶ 72, 81. And Plaintiffs' trade secret misappropriation claims even allege that they have been harmed by "financial loss for any *unjust enrichment* caused by the misappropriation of the trade secrets." D.I. 103, ¶¶ 73, 82 (emphasis added).

Because there are other remedies available to address Defendants' allegedly wrongful conduct (*e.g.*, conversion and trade secret misappropriation), unjust enrichment is not an available claim, regardless of whether Plaintiffs can successfully proceed on its other claims. *See Walters v. MedSouth Rec. Mgmt.*, *LLC*, 2010-0352 (La. 6/4/10), 38 So. 3d 241, 242. *Shaw v. Restoration Hardware, Inc.*, No. CV 21-1540, 2022 WL 343458 (E.D. La. Feb. 4, 2022). In *Shaw*, the court explained that the plaintiffs' unjust enrichment claim was based on "[t]he same alleged conduct [that] is the basis of plaintiffs' other claims in this litigation." *Id.* at *6. As such, the court held that "plaintiffs cannot succeed in proving the fifth element of the unjust enrichment claim: absence of another remedy" and therefore dismissed the unjust enrichment claim. *Id.* The court further explained that even though the plaintiffs' other claims that were based on the same conduct also

failed as a matter of law and were dismissed, "the failure on those claims would not lead to recovery under an unjust enrichment theory." *Id*.

Thus, because here BearBox's unjust enrichment claim is based on the same conduct as its conversion and trade secret claims, the unjust enrichment claim (Count VI) should be dismissed with prejudice.

2. To The Extent Plaintiffs' Unjust Enrichment Claim Is Premised On The Use of Non-Confidential Information, It Is Preempted By Federal Patent Law

It is well-established that "[f]ederal law preempts state law that offers patent-like protection to discoveries unprotected under federal patent law." *Ultra-Precision Mfg., Ltd v. Ford Motor Co.*, 411 F.3d 1369, 1377-78 (Fed. Cir. 2005) (noting that "Federal Circuit law governs whether federal patent law preempts a state law claim") (internal quotations and citation omitted). The Supreme Court has also noted that "[a] state law that substantially interferes with the enjoyment of an unpatented utilitarian or design conception which has been freely disclosed by its author to the public at large impermissibly contravenes the ultimate goal of public disclosure and use which is the centerpiece of federal patent policy." *Bonito Boats, Inc. v. Thunder Craft Boats, Inc.*, 489 U.S. 141, 156-57 (1989). Thus, "[a]bsent secrecy, state law cannot create a collateral set of rights available as an adjunct or expansion to patent rights." *Ultra- Precision*, 411 F.3d at 1379 (quoting *Waner v. Ford Motor Co.*, 331 F.3d 851, 856 (Fed. Cir. 2003)).

Here, as addressed above, Plaintiffs' unjust enrichment claim is premised upon Defendants' alleged use of "BearBox's technology" to modify their Smart ResponseTM software—the same conduct that forms the basis of Plaintiffs' conversion and trade secret misappropriation claims. However, although Plaintiffs' conversion and trade secret misappropriation claims are explicitly limited to Defendants' alleged use of "confidential"

information (*see*, *e.g.*, D.I. 103, ¶¶ 68-72, 77-81, 88), Plaintiffs' unjust enrichment claim is silent regarding whether "BearBox's technology" at-issue was confidential. *See* D.I. 103, ¶¶ 91-101. Nonetheless, to the extent Plaintiffs base their unjust enrichment claim on Defendants' alleged use of non-confidential technology or information (or attempt to distinguish their unjust enrichment claims from their conversion and trade secret misappropriation claims on this basis), the claim is preempted by federal patent law. Under federal patent law, an idea is considered publicly available if "given to a member of the public without restriction." *See Pronova Biopharma Norge AS v. Teva Pharms. USA, Inc.*, 549 F. App'x 934, 940 (Fed. Cir. 2013); *see also Bonito Boats*, 489 U.S. at 149 (under the one year statutory bar of federal patent law's 35 U.S.C. § 102, "[o]nce an inventor has decided to lift the veil of secrecy from his work, he must choose the protection of a federal patent or the dedication of his idea to the public at large"). Thus, if Plaintiffs are permitted to pursue non-patent claims for use of an idea or technology that was publicly known, the Court would be allowing Plaintiffs to encroach impermissibly on the exclusive domain of federal patent law.

Indeed, the Federal Circuit, which "governs whether federal patent law preempts a state law claim," has repeatedly held similar unjust enrichment claims based on the use of non-confidential information to be preempted. For example, in *Ultra-Precision*, the court held plaintiff's unjust enrichment claim, which was premised upon the defendant's "using, manufacturing, and selling vehicles equipped with [Ultra-Precision's] technology" was preempted because the idea/technology was not kept confidential and was therefore "free for all the world to enjoy." *Id.* at 1380-82. Additionally, in *Waner* the court affirmed dismissal of the plaintiff's unjust enrichment claim premised upon the use of his non-confidential idea because such "ideas can only be protected under intellectual property law by the patent system." *Waner*, 331 F.3d at 856–57. Accordingly, to the extent Plaintiffs' unjust enrichment claim is premised upon the alleged use of

non-confidential technology, information, or ideas, this claim is preempted and should be dismissed with prejudice.

3. Plaintiffs' Conversion Claim Fails Because They Were Not Deprived Of Tangible Property

Plaintiffs' conversion claim fails as a matter of law because their allegations do not—and cannot—state a claim for conversion. Under Louisiana law, "[a] conversion is an act in derogation of the plaintiff's *possessory* rights and any wrongful exercise or assumption of authority over another's goods, *depriving him of the possession*, permanently or for an indefinite time." *Quealy v. Paine, Webber, Jackson & Curtis, Inc.*, 475 So. 2d 756, 760 (La. 1985) (emphasis added); *see also Bihm v. Deca Sys., Inc.*, 2016-0356 (La. App. 1 Cir. 8/8/17), 226 So. 3d 466, 478 (citing *Quealy*, 475 So. 2d at 760). Thus, conversion "is grounded on the unlawful interference with the ownership or possession of a movable." *CamSoft Data Systems, Inc. v. Southern Electronics Supply, Inc.*, 2019 CA 0731, 2019 WL 2865359, at *2 (La. Ct. App. July 2, 2019), *writ denied*, 282 So. 3d 1071 (La. 2019).

Here, Plaintiffs' conversion claim fails because Plaintiffs were not deprived, and do not allege that they were deprived, of ownership or possession of any tangible, movable property. As an initial matter, the only things that Plaintiffs allege that Defendants converted were "BearBox's technology, including system designs, documents, data, and know-how." D.I. 103, ¶87. Moreover, Plaintiffs only allege that they provided Defendants with information about "BearBox's technology" via "conversations, emails, and text messages." *See, e.g., id.*, ¶¶ 33-34. Importantly, Plaintiffs do not allege that Defendants converted any paper or hard copy documents, and they do not allege that they were ever deprived of copies of or access to the allegedly converted "system designs, documents, data, and know-how." *See id.*, ¶¶ 84-90. Indeed, they do not allege that Defendants took or converted the only copies of their "system designs, documents, data, and know-how."

how." *Id.* They make no allegation that they were deprived of ownership or possession of their "system designs, documents, data, and know-how." *Id.* Nor could they because in order to email or text message any information to Defendants, Plaintiffs must have had their own copies. Thus, Plaintiffs fail to allege a cause of action for conversion.

CamSoft is instructive. 2019 WL 2865359, at *2-3. Similar to this case, in CamSoft, the plaintiff alleged the defendants were liable for conversion based on the alleged "ongoing use of CamSoft's confidential technical and business information" that included "device compilations, software code, know-how, networking designs, installation process, business methods, marketing plans, pricing information, and strategic wireless network integrator business plans." Id. The CamSoft court, however, granted summary judgment on the conversion claim for two reasons. One, the claim was based on "immovable, intangible information." Id. at *3. Two, despite the defendants' alleged use of CamSoft's information, "CamSoft was not deprived of its confidential business information," and "a conversion requires a deprivation of possession." Id. This same reasoning applies here because Plaintiffs have not alleged—and cannot allege—that they were deprived of their allegedly converted technology or information because they retained copies of this information. Indeed, just as in CamSoft, Plaintiffs do not allege that "their business information was taken from them in physical form or that they no longer had the use of their confidential information." Id. at 3 n.3.

Accordingly, the Court should dismiss Plaintiffs' conversion claim (Count V) with prejudice.

VI. CONCLUSION

For the reasons stated above, the Court should dismiss Count V (conversion) and Count VI (unjust enrichment) in the Second Amended Complaint, with prejudice.

Dated: March 16, 2022 BARNES & THORNBURG LLP

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Subject: Activity in Case 1:21-cv-00534-MN-CJB BearBox LLC et al v. Lancium LLC et al Report

and Recommendations

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U.S. District Court

District of Delaware

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Case Name: BearBox LLC et al v. Lancium LLC et al

Case Number: 1:21-cv-00534-MN-CJB

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Document Number: 143(No document attached)

Docket Text:

REPORT AND RECOMMENDATION: The Court, having reviewed Defendants' motion seeking dismissal, pursuant to Fed. R. Civ. P 12(b)(6), of Plaintiffs' Count V (conversion) and Count VI (unjust enrichment) in the operative Second Amended Complaint ("Motion"), (D.I. 120), the briefing related thereto, (D.I. 121; D.I. 128; D.I. 133), and having heard argument on May 23, 2022, hereby recommends as follows: (1) With regard to Count V, the Court recommends that the Motion be DENIED. Defendants' argument is that Plaintiffs' conversion claim must fail as a matter of law because under Louisiana law (which both sides agree applies to these claims) there can be no conversion of electronic files (the type of documents allegedly converted in Count V) where the owner retains a copy of those files (as Plaintiffs acknowledge it did), since in such a case, the owner is not completely deprived of the property at issue. (D.I. 133 at 2-6) This is a difficult issue, and Defendants do cite to some Louisiana state court precedent that provides some support for their position. See CamSoft Data Sys., Inc. v. S. Elecs. Supply, Inc., 2019 CA 0731, 2019 CW 0514, 2019 WL 2865359, at *2-3 & n. 3 (La. Ct. App. July 2, 2019) (concluding that a claim for conversion could not stand because "a conversion requires a deprivation of possession" and the plaintiff retained a copy of the allegedly converted electronic materials at issue); but see Mabile v. BP, p.l.c., CIVIL ACTION NO. 11-1783, 2016 WL 5231839, at *1, *23 (E.D. La. Sept. 22, 2016) (permitting a conversion claim under Louisiana law that was premised on the defendant's obtaining of the plaintiff's schematic, where the plaintiff e-mailed a digital copy of the schematic but also retained a copy); cf. Total Safety, U.S., Inc. v.

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC and AUSTIN STORMS,

Plaintiffs,

v.

LANCIUM LLC, MICHAEL T. MCNAMARA, and RAYMOND E. CLINE, JR.,

Defendants.

C.A. No. 21-534-MN

DEFENDANTS' OBJECTIONS TO THE REPORT AND RECOMMENDATION (D.I. 143) REGARDING DEFENDANTS' MOTION TO DISMISS COUNTS V AND VI OF THE SECOND AMENDED COMPLAINT

Dated: June 9, 2022

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I. INTRODUCTION

Pursuant to Federal Rule of Civil Procedure 72(b)(2), Defendants object to the portion of the Report and Recommendation of Magistrate Judge Burke (D.I. 143, the "R&R") on Defendants' Motion To Dismiss Counts V and VI of the Second Amended Complaint (D.I. 120, the "Motion to Dismiss"), recommending that the Motion to Dismiss be denied as to Count V (Plaintiffs' claim for conversion). Plaintiffs' conversion clam is premised on the alleged conversion of electronic documents that Plaintiffs provided to Defendants, but for which they retained copies. Thus, Plaintiffs were not deprived of the allegedly converted property. Under applicable Louisiana law, however, conversion requires that the owner of property be deprived of possession of that property. Although the R&R acknowledges that "[t]his is a difficult issue," it mistakenly recommends against granting the Motion to Dismiss as to Plaintiffs' claim for conversion based on a misunderstanding that such a claim can arise if Defendants interfered with Plaintiffs' "ownership" of the allegedly converted property even if Plaintiffs were not deprived of possession of the property. But this is incorrect. Deprivation of possession is a necessary element of a claim for conversion under Louisiana law. Accordingly, the Court should grant Defendants' Motion to Dismiss in its entirety and dismiss Plaintiffs' claims for conversion and unjust enrichment.

II. BACKGROUND

Defendant Lancium LLC ("Lancium") is a technology company that since its founding in 2017 has been a leading innovator in the field of flexible datacenters to perform blockchain hashing operations, such as mining for cryptocurrency, with little to no energy costs using clean and renewable energy that would otherwise be wasted. D.I. 23 at 20. Lancium's technology and intellectual property, including its Smart ResponseTM software, enables more renewable energy on

the nation's power grid, and Lancium's innovations have led to numerous pending and issued patents on its technology. D.I. 23 at 23.

Plaintiff Austin Storms' only interaction with any of Defendants occurred in May 2019, when Mr. Storms met Defendant Michael McNamara and they attended a group dinner, along with several other people, after a one-day industry conference. In the days that followed, Mr. Storms and Mr. McNamara exchanged a handful of text messages and Mr. Storms sent Mr. McNamara a single email. See D.I. 103 at ¶¶ 32-36; see also D.I. 23 at Exhibits C and D (the exchanged text messages and email). Based on these interactions, Plaintiffs have asserted a series of meritless and legally flawed claims against Defendants seeking damages for the alleged improper use of information Mr. Storms allegedly provided to Defendants. See D.I. 19 (First Amended Complaint dropping Plaintiffs' originally pled trade secret misappropriation claims); D.I. 97 (dismissing Plaintiffs' conversion and unjust claims pled in the First Amended Complaint); 4/22/22 Minute Entry (striking the trade secret misappropriation claims pled in the Second Amended Complaint). Plaintiffs' currently pled conversion claim (aside from its unjust enrichment claim, which the R&R recommends dismissing) is the last of these claims, but it is equally meritless and legally flawed.

Plaintiffs' operative Second Amended Complaint ("SAC," D.I. 103) alleges that Defendants converted "BearBox's technology, including system designs, documents, data, and know-how, and improperly used it to modify their Smart ResponseTM software" D.I. 103 at ¶ 87. Importantly, however, Plaintiffs only allege that they provided Defendants with information about "BearBox's technology" via "conversations, emails, and text messages." *See, e.g., id.*, ¶¶

¹ If the Court grants Defendants' Motion to Dismiss in its entirety, Plaintiffs' only remaining claims will be their claims regarding the allegedly incorrect inventorship of U.S. Patent No. 10,608,433 (*i.e.*, Counts I and II of the Second Amended Complaint, D.I. 103), but these claims do not seek monetary damages.

33-34. Plaintiffs do not allege that Defendants converted any paper or hard copy documents, and they do not allege that they were ever deprived of copies of or access to the allegedly converted "system designs, documents, data, and know-how." *See id.*, ¶¶ 84-90. Plaintiffs also do not and cannot allege that Defendants took or converted the only copies of their "system designs, documents, data, and know-how." *Id.* They make no allegation that they were deprived of possession of their "system designs, documents, data, and know-how." *Id.*

Defendants moved to dismiss Plaintiffs' claim for conversion because under Louisiana law conversion requires that the owner of the allegedly converted property be deprived of that property. See D.I. 121 at 12-13; D.I. 133 at 1-6. Indeed, as set forth in Defendants' opening brief in support of the Motion to Dismiss, under Louisiana law, "[a] conversion consists of an act in derogation of the plaintiff's possessory rights, and any wrongful exercise or assumption of authority over another's goods, depriving him of the possession, permanently or for an indefinite time, is a conversion." Quealy v. Paine, Webber, Jackson & Curtis, Inc., 475 So.2d 756, 760 (La. 1985)³; see also Bihm v. Deca Sys., Inc., 2016-0356 (La. App. 1 Cir. 8/8/17), 226 So.3d 466, 478 (citing Quealy, 475 So.2d at 760). Despite recognizing that "[t]his is a difficult issue," the R&R recommends denying the portion of Defendants' Motion to Dismiss regarding the claim for conversion. D.I. 143. Defendants object to that recommendation.

III. ARGUMENT

A. Legal Standards

"For reports and recommendations issued regarding dispositive motions, Rule 72(b)(3) of the Federal Rules of Civil Procedure instructs that 'a party may serve and file specific written

² The R&R correctly notes that Louisiana law applies to Plaintiffs' conversion claim and "both sides agree" on this point. *See* D.I. 143.

³ All emphases added unless otherwise noted.

objections to the proposed findings and recommendations' '[w]ithin 14 days' and '[t]he district judge must determine de novo any part of the magistrate judge's disposition that has been properly objected to." *Speakman v. Williams*, No. 18-1252-MN, 2019 WL 4751939, at *2 (D. Del. Sept. 30, 2019) (quoting Fed. R. Civ. P. 72); *see also* 28 U.S.C. § 636(b)(1); *Brown v. Astrue*, 649 F.3d 193, 195 (3d Cir. 2011).

B. Plaintiffs' Conversion Claim Should Be Dismissed Because Conversion Under Louisiana Law Requires That The Plaintiff Be Deprived Of Its Property And There Is No Dispute That Plaintiffs Were Not Deprived Of The Allegedly Converted Property

Count V of Plaintiffs' SAC asserts a claim for conversion under Louisiana law based on Defendants allegedly converting Plaintiffs' electronic files. This claim fails as a matter of law, however, because conversion under Louisiana law requires that the owner be deprived of its property. Here, Plaintiffs only allege that they provided the allegedly converted files via email or text message, and as such, Plaintiffs could not have been deprived of the allegedly converted. This is because in order to email or text message any information to Defendants, Plaintiffs must have had their own copies. D.I. 103 at ¶¶ 33-34. Indeed, the R&R recognizes that "Plaintiffs acknowledge [they] did" retain copies of the allegedly converted property. See D.I. 143. Nonetheless, the R&R recommends that the Motion to Dismiss be denied as to Plaintiffs' conversion claim because although "[t]his is a difficult issue, and Defendants do cite some Louisiana state court precedent that provides some support for their position," it concludes that "regardless of whether Defendants are correct on that point," conversion can occur "when a defendant unlawfully interferes with the plaintiffs 'ownership' of a movable" and "Plaintiffs' conversion claim can be read to allege that this is what occurred here." D.I. 143. The R&R, however, is incorrect and conversion under Louisiana law requires that the owner of property be deprived of possession of that property in order for a claim for conversion to arise. In other words,

deprivation of possession is a necessary element of a conversion claim.

As an initial matter, there is more than "some support" for the requirement that a property owner be deprived of possession of its property in order for a conversion claim to arise. Indeed, the Louisiana Supreme Court has explained that "[t]he gist of a conversion has been declared to be not the *acquisition* of the property by the wrongdoer, but the *wrongful deprivation* of a person of property to the possession of which he is entitled." Importsales, Inc. v. Lindeman, 231 La. 663, 668, 92 So.2d 574, 575-76 (1957) (citations omitted). The Louisiana Supreme Court has also repeatedly noted the deprivation requirement for conversion when addressing conversion claims. See Dual Drilling Co. v. Mills Equip, Invs., Inc., 721 So.2d 853, 857 (La. 1998) (explaining that the cause of action of conversion "is available to an owner dispossessed as a result of an offense or quasi-offense or, in other words, a 'tort'"); Quealy, 475 So.2d at 760 ("A conversion consists of an act in derogation of the plaintiff's *possessory* rights, and any wrongful exercise or assumption of authority over another's goods, depriving him of the possession, permanently or for an indefinite time, is a conversion."); Edward Levy Metals, Inc. v. New Orleans Public Belt R.R., 148 So.2d 580, 582 (La. 1963) ("It is well settled under concepts of conversion forming the basis for any tort action herein, that it is not the erroneous accumulation of the property by the wrongdoer which gives rise to delictual responsibility, but the wrongful *deprivation* of a person of property to the possession of which he is entitled once the possessor has knowledge that the property is under his control."). Intermediate appellate courts in Louisiana have also recently emphasized the deprivation requirement. See, e.g. Bihm v. Deca Sys., Inc., 2016-0356 (La. App. 1 Cir. 8/8/17), 226 So.3d 466, 478 ("A conversion is an act in derogation of the plaintiff's possessory rights and any wrongful exercise or assumption of authority over another's goods, depriving him of the possession, permanently or for an indefinite time."); Glod v. Baker, 998 So.2d 308, 317 (La. App.

3d Cir. 2008) (citing *Angelo and Son, Inc. v. Rapides Bank & Trust Co.*, 95–992 (La.App. 3 Cir. 4/10/96), 671 So.2d 1283, *writs denied*, 96–1173, 96–1204 (La. 6/21/96), 675 So.2d 1083) (same). Thus, it is well-established by controlling authority that conversion under Louisiana law requires a deprivation of possession, which Plaintiffs do not and cannot allege.

Although the Louisiana Supreme Court has not addressed a case where, as here, the conversion claim was based on the alleged conversion of electronic documents where the owner retained a copy, this situation has been addressed by the Court of Appeal of Louisiana for the First Circuit in CamSoft Data Sys., Inc. v. S. Elecs. Supply, Inc., 2019 CA 0731, 2019 WL 2865359 (La. Ct. App. July 2, 2019), writ denied, 282 So.3d 1071 (La. 2019). Indeed, CamSoft addressed a nearly identical situation where the conversion claim was based on the alleged "ongoing use of CamSoft's confidential technical and business information" that included "device compilations, software code, know-how, networking designs, installation process, business methods, marketing plans, pricing information, and strategic wireless network integrator business plans." 2019 WL 2865359, at *2-3. The CamSoft court, however, found that there could be no conversion because the claim was based on use of electronic files and "immovable, intangible information" and "CamSoft was not deprived of this information" but "a conversion requires a deprivation of possession." Id. at *3. Furthermore, the CamSoft plaintiff sought to appeal this decision to the Louisiana Supreme Court arguing that "[t]he First Circuit erred in holding as a matter of law that there can be no *deprivation* for purposes of conversion unless the subject property is completely removed by the plaintiff's possession and use" because in Louisiana "the law of conversion seeks to address the defendant's repudiation of plaintiff's ownership rights to the subject property." See

⁴ Where a state's highest court has not spoken, a federal court applying state law has a duty to decide a case as it believes the state's highest court would have done. *Valley Forge Ins. Co. v. Jefferson*, 628 F. Supp. 502, 510 (D. Del. 1986).

Exhibit 2 (*CamSoft* plaintiff's application for writ of certiorari) at 5-8 (emphasis in original). But the Supreme Court *denied* the application for writ of certiorari. *CamSoft Data Sys., Inc. v. S. Elecs. Supply, Inc.*, 282 So.3d 1071 (La. 2019). Thus, beyond providing "some support" for Defendants' Motion to Dismiss, *CamSoft* establishes that Plaintiffs' conversion claim fails as a matter of law because they were not deprived of possession of the allegedly converted property.

Although the R&R cites *Mabile v. BP, P.L.C.*, No. 11-1783, 2016 WL 5231839, at *1, *23 (E.D. La. Sept. 22, 2016) and *Total Safety, U.S., Inc. v. Code Red Safety & Rental, LLC*, No. 19-12953, 2019 WL 5964971, at *1, *4-5 (E.D. La. Nov. 13, 2019) as contrary authority to *CamSoft*, both of these cases are federal district court decisions that are not controlling authority. *See* D.I. 143. In addition, *Mabile* was decided before *CamSoft* and thus did not have the benefit of its guidance on Louisiana law. Furthermore, *Total Safety* is inapposite because it did not address the deprivation requirement for a conversion claim. *See* 2019 WL 5964971, at *4-5. Rather, *Total Safety* only held that a conversion claim was not preempted by the Louisiana Uniform Trade Secrets Act. 5 *Id.*

The R&R cites to *CamSoft* in support of its conclusion that interference with "ownership" is an independent basis that can give rise to a conversion claim, but *CamSoft* does not support this conclusion. *See* D.I. 143. Rather, *CamSoft* is explicit that "conversion requires a deprivation of possession." 2019 WL 2865359, at *3. Moreover, similar to Plaintiffs' claims here, the *CamSoft* plaintiffs' conversion claim was based on the alleged "use of CamSoft's confidential technical and

⁵ Total Safety was also raised by Plaintiffs for the first time during the hearing on the Motion to Dismiss. See Ex. 1 (5/23/22 Hr'g Tr.) at 27:18-23; see also D.I. 128 (Plaintiffs' opposition to Motion to Dismiss). Although the R&R cites to Total Safety, when counsel pointed out that Total Safety was not raised in the parties' briefing and was not appropriate authority to raise for the first time during oral argument, Magistrate Judge Burke responded that "I agree." See Ex. 1 at 29:2-17.

business information." *Id.* at *2. Thus, the conclusion that such use can give rise to a claim for conversion where there is no deprivation of possession is directly contrary to *CamSoft*'s holding.

The R&R also cites to Plaintiffs' opposition to the Motion to Dismiss in support of its conclusion that interference with ownership can give rise to a claim for conversion where there is no deprivation of possession. *See* D.I. 143. But as set forth in Defendants' reply brief, Plaintiffs' case law is all distinguishable, does not support this proposition, is not controlling, and/or predates *CamSoft. See* D.I. 133 at 2-5.

The Fifth Circuit has also made clear that interference with ownership is not an independent basis for a conversion claim under Louisiana law. In Chrysler Credit Corp. v. Perry Chrysler Plymouth, Inc., where the plaintiff asserted a claim for conversion of funds, the Fifth Circuit explained that "to prevail against [defendant], [plaintiff] must prove that (1) it owned funds misused by him; (2) the misuse was inconsistent with its rights of ownership; and (3) the misuse constituted a wrongful taking of the funds." 783 F.2d 480, 484 (5th Cir. 1986); see also Tri-state Bancshares, Inc. v. Scott, No. CV 15-2053, 2016 WL 4098604, at *4 (W.D. La. July 28, 2016) (quoting Chrysler Credit and explaining that "[t]he Fifth Circuit articulates three elements to be proven by the plaintiff for the tortious conversion of funds under Louisiana law."). In other words, interference with ownership rights is an *additional requirement* for a conversion claim beyond the requirement for a "taking" (i.e., a deprivation of possession). And here, Plaintiffs have not and cannot allege that they were deprived of the allegedly converted property. See D.I. 143. As such, the R&R's recommendation that dismissal of Plaintiffs' conversion claim be denied because interference with "ownership" is an alternative basis for such a claim is legally flawed. Plaintiffs' the conversion claim fails as a matter of law because they were not deprived of possession of the allegedly converted property.

IV. CONCLUSION

For the reasons stated above, the R&R's conclusion that interference with ownership is an independent basis for a conversion claim is mistaken. The Court should sustain Defendants' objections to the R&R and grant Defendants' Motion to Dismiss in its entirety.

Dated: June 9, 2022 BARNES & THORNBURG LLP

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IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC and AUSTIN STORMS,

Plaintiffs,

v.

LANCIUM LLC, MICHAEL T. MCNAMARA, and RAYMOND E. CLINE, JR.,

Defendants.

C.A. No. 21-534-MN

CERTIFICATION PURSUANT TO DISTRICT OF DELAWARE STANDING ORDER FOR OBJECTIONS FILED UNDER FED. R. CIV. P. 72

Defendants Lancium LLC, Michael T. McNamara and Raymond E. Cline ("Defendants") hereby certify that the foregoing objections do not raise any legal or factual arguments that were not previously raised before Magistrate Judge Burke.

Dated: June 9, 2022 BARNES & THORNBURG LLP

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EXHIBIT 1

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IN THE UNITED STATES DISTRICT COURT
            FOR THE DISTRICT OF DELAWARE
BEARBOX LLC, et al., )
       Plaintiffs, ) C.A. No. 21-534-MN-CJB
\nabla .
LANCIUM LLC, et al.,
       Defendants. )
             Monday, May 23, 2022
             1:00 p.m.
BEFORE: THE HONORABLE CHRISTOPHER J. BURKE
      United States District Court Judge
APPEARANCES:
        ASHBY & GEDDES
        BY: ANDREW MAYO, ESQ.
              -and-
        MARSHALL, GERSTEIN & BORUN
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        BY: BENJAMIN HORTON, ESQ.
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1 THE COURT: Good afternoon, 2 everyone. It's Judge Burke here. Can everyone 3 hear me okay? 4 COUNSEL: Yes, Your Honor. 5 THE COURT: All right. I know our 6 court reporter is with us and we thank our court 7 reporter for their service and let's go on the 8 record in light of that and as we do let me just 9 say a few things for the record. The first is 10 that we're here this afternoon by way of 11 teleconference in the matter of BearBox LLC, et 12 al, versus Lancium LLC, et al. It's civil 13 action number 21-534-MN-CJB here in our court. 14 And we're here for a teleconference to hear 15 brief argument on the pending motion to dismiss 16 filed by the defendant's side. 17 Before we go further, let's have counsel for each side identify themselves for 18 19 the record. We'll start first with counsel for 20 the plaintiff's side and we'll begin there with 21 Delaware counsel. 22 MR. MAYO: Good afternoon, Your 23 This is Andrew Mayo from Ashby & Geddes 24 on behalf of the plaintiff, BearBox and Austin

1 Storms. I am joined this afternoon by my 2 co-counsel from Marshall, Gerstein & Borun, you 3 have Benjamin Horton and John Labbe on the line. 4 THE COURT: All right. And Mr. 5 Mayo, who will be addressing the issues today? 6 MR. MAYO: Mr. Horton, Your Honor. 7 THE COURT: Okay. Great. 8 similarly, we'll ask defendant's to identify 9 themselves, again beginning with Delaware 10 counsel and to let us know who will be 11 addressing the issues for their side. 12 MR. STOVER: Good afternoon, Your 13 Honor. Chad Stover from Barnes & Thornburg for 14 defendants and with me are my partners Adam 15 Kaufmann and Mark Nelson and Mr. Kaufmann will 16 be addressing the Court this afternoon on this 17 motion. 18 THE COURT: Okay. Thank you. 19 Thanks to all. All right. Counsel, as you 20 know, the motion to dismiss implicates two 21 claims that are in the current iteration of the 22 operative complaint. One is a conversion claim 23 and then the second is the unjust enrichment 24 claim. There is one argument for dismissal of

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the conversion claim and for the unjust enrichment claim, there are a few different arguments. There, the arguments are related to the fifth element of the claim on the one hand and they will relate to the federal preemption argument on the other. Why don't we first deal with the arguments about the conversion claim and after we hear argument on that, we can move on to the unjust enrichment claim. On that front, let me then turn first to defendant's counsel and, Mr. Kaufmann, I'll turn to you and I'll just have a few questions and I'll certainly let you add anything else that you wish to add from your briefing if it's not something we get into via my questions. And so with regard to the conversion issue, you know, a lot of this comes down to your argument that when it comes to Louisiana law, what has to be pleaded and established is that in some way what's alleged here is an instance of a party depriving the owner of possession of information or the ability to use the property or the information. And here your basic assertion is that the

1 complaint doesn't plead that because the 2 information at issue was transferred 3 electronically and it's clear from the 4 allegations that the plaintiff retained a copy 5 of it and so the plaintiff never lost -- was 6 never deprived of possession of the information 7 or the ability to use it. 8 Have I set out the gist of your 9 argument at least by way of kind of framing it? 10 MR. KAUFMANN: Yes, Your Honor, I 11 think you have. I guess maybe one point of 12 clarification I would make is you're correct 13 that the primary basis for our claim is that 14 there's been no alleged deprivation of the 15 converted property. I will say I think there's 16 two aspects to the allegation of what the 17 converted property is. The second amended complaint refers to conversion of some actual 18 19 electronic documents, but also know-how is one 20 of the things that is allegedly converted. 21 to the extent that know-how is not tied to 22 physical things, physical documents or 23 electronic documents, our position is that would 24 also be, you know, not the proper subject matter

of a conversion claim because it's intangible.

Know-how divorced from any physical document is intangible and can't be converted and then of course for the electronic documents, there was no deprivation and so there can also been no conversion.

know-how issue coming up from the briefing. My memory of the briefing, what the parties were arguing about there, it seemed to be understood that yes, the information that is alleged to have been converted was information that was sent electronically and obtained electronically and that presumably stored electronically at defendant's side. Did the parties get into this -- do you disagree? Did the parties talk about what you were just talking about now in the briefs?

MR. KAUFMANN: Well, Your Honor,

I'd just point out that in our brief the way the

claim has been alleged refers to know-how as

we've noted in our briefing as well. But you're

correct, I don't believe there's any dispute

that what was converted was electronic

documents.

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THE COURT: Okay. And then I guess, you know, there was some back and forth about whether under the Louisiana law electronic information or documents can be the type of property that could be converted. And at some point I guess certainly about the time of the reply brief you acknowledged, yes, that's true, we're not saying on the defendant's side that electronic information can't be converted. And I guess my question there to you was, in your view is the only way that electronic information can be converted is if a party either literally kind of takes the electronic information physically, you know, say, for example, like in one of the cases is information on a hard drive, and takes that hard drive and takes it away from the plaintiff or if the defendant's side, you know, deletes or gets rid of the electronic information? Put differently, in your view, is there any way that you can convert electronic information simply by receiving it, you know, via like an e-mail or a text or something like that?

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MR. KAUFMANN: Well, Your Honor, I think that the conversion does require a deprivation of the property and so just by receiving a copy of electronic documents via e-mail or some other electronic conveyance, no, I don't believe there is a way that that could be converted as long as the owner of that property retained a copy of it. I think you correctly summarized that instances of conversion of electronic documents could occur in instances like where the documents are stored on a physical hard drive and the hard drive is taken or, yeah, the files were withheld from the owner, I believe is one of the cases. What was discussed in the briefing dealt with a situation where a party developed software that was, you know, stored on a computer hard drive and then didn't turn it over to the party that had paid for it. THE COURT: Right. Like if two parties entered into a contract and the defendant is supposed to develop and create software for the plaintiff, but the allegation is defendant never gave this software to the

1 plaintiff, you know, that's if you have 2 electronic information or software that can be 3 properly said to be alleged to be converted, but 4 you would say it's an example where the entirety 5 of that information is in the defendant's 6 possession? 7 MR. KAUFMANN: Correct. 8 THE COURT: Okay. And then I 9 guess just thinking about it, how come there 10 can't be a deprivation of property regarding 11 electronic documents when an owner or plaintiff 12 retains a copy? Isn't it -- couldn't it be said 13 that the owner is deprived of sole possession of 14 the electronic documents in that situation, even 15 if they're not deprived of total possession of 16 the information? 17 MR. KAUFMANN: No, Your Honor, I don't believe there could be. You know, the 18 19 only, I think, potential scenario I could see 20 where there could be a deprivation where the 21 owner of the files retained a copy could be in 22 the scenario where the information was the basis 23 of a patent. But as Your Honor knows, the 24 original conversion claim in this case was based

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on that, that Lancium converted BearBox's property by patenting it. And Your Honor, you know, correctly found that that claim was not viable and dismissed that claim. And so now the basis of this conversion claim is something different than that. Right? I mean, the allegations are no longer that the property was converted into a patent whereby Lancium would have the ability to prevent, you know, someone else from using their patented technology. long as BearBox had a copy of their electronic files, they can do whatever they want with it. And again, that property, the basis of the conversion claim is something different than what is the subject matter of the patent that their enrichment claims relate to. THE COURT: I think what you're saying is, tell me if I'm wrong, but under the Louisiana law when it comes to conversion, there isn't the idea -- you can't have a scenario where, you know, there's a piece of property, say electronic information, or any kind of property really, and the plaintiff holds onto one copy of it, but the defendant gets another

copy of it and the plaintiff can claim that the defendant converted their property. Isn't that right? Isn't that -- isn't that, from what you're arguing, you can't have a conversion claim under Louisiana law in your view if each side keeps a copy, if each side ends up with a copy of the allegedly converted electronic material, is that right?

MR. KAUFMANN: I think that is correct, Your Honor. And that, you know, I think what the CamSoft case found, you know, explicitly, that, you know, they quoted the Louisiana supreme court Binn case, cited to the Binn, says that a conversion requires a case of possession. And, for example, in CamSosft there was no deprivation because the owner of the property retained copies of their information and so there could not be a conversion.

THE COURT: And then last question for you that I had, the Louisiana law, as both sides note, lists out the seven kind of possible examples of conversion. And in describing what those things are, again, you say that they each involve depriving the owner of possession or the

1 ability to use its property. I quess my 2 question is how is that true with example number 3 seven, which is referred to as ownership is 4 asserted over the channel. Can't you have a 5 scenario where you have a conversion claim where 6 a party claims that they own certain property 7 but nevertheless, it physically remains -- also 8 remains in the hands of the plaintiff? 9 Well, Your Honor, I MR. KAUFMANN: 10 don't believe you could have that scenario where there would be a situation other than, you know, 11 12 the scenario I mentioned before, where the --13 you know, we're talking about the subject of a 14 patent. You know, the Louisiana supreme court 15 has been clear that, you know, the basis of a 16 conversion claim, in the Import Sales case the 17 supreme court was explicit that the gist of a conversion has been declared not to be the 18 19 acquisition of the property by the wrong does, 20 but the wrongful deprivation of a person of the 21 property to the possession to which he is 22 entitled. And the only way to assert ownership 23 over property that would deprive the owner of 24 that ownership would be to have physical

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mechanism to preclude them from using that property. And I think the only legal mechanism that could be would be a patent. And Your Honor has already found that that can't be the basis of a conversion claim.

THE COURT: Taking it out of the electronic information context, though, let's say think about just a physical item, like a Let's say a plaintiff on its property has a car and a defendant says, hey, that's my car. I don't have the physical car, but I think that's my car. And the defendant maybe goes and files some type of legal claim in Louisiana trying to convince somebody that the car is the defendant's, but the plaintiff says, that's totally false, this is my car. The defendant is asserting ownership of this physical thing that I still possess, but I think defendant's converted it or maybe defendant is successful with their legal challenge if they converted it. Can't you have -- in the physical realm, can't you have a physical conversion claim where you assert ownership of something even though the

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       thing is still in the possession of the
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       plaintiff?
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                     MR. KAUFMANN: Well, I don't think
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       in that scenario that could be a conversion,
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       because if there was a legal claim that was
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       filed, you know, asserted against ownership of
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       the claim and it was successful, then, you know,
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       then the claimant prevailed and there would be
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       no wrongful taking or you know, and if they --
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       if they were unsuccessful, then there was no
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       interference with the property either.
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       there, Your Honor, I don't believe there's any
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       mechanism. I quess the one example of depriving
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       the property owner of ownership would be in a
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       situation like what we discussed earlier where,
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       you know, developing the software and not
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       turning it over to the owner could be an example
       of interfering with ownership, but there there's
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       still a deprivation.
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                     THE COURT: Okay. Mr. Kaufmann,
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       is there anything more you want to say about
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       this conversion issue before I turn to your
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       colleague on the other side?
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                     MR. KAUFMANN: Your honor, the
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1 only final point I would make on that is I think 2 the CamSoft case is wholly precedent here and 3 dealt with this issue, you know, nearly 4 identical issue and concluded that there could 5 be no conversion of electronic documents where 6 there is no deprivation of the property owner. 7 And under CamSoft, I think BearBox's claim 8 necessarily fails for identical reasoning that 9 there is simply no deprivation here because 10 BearBox at all times retained a copy of the 11 allegedly converted property and the ability to 12 use it. 13 THE COURT: Okay. All right. 14 Thank you. Let me turn to plaintiff's counsel. 15 And Mr. Horton I know is going to take this 16 issue. And Mr. Horton, I'll start out where the 17 defendant's side left off. If they say hey, 18 look, we have a Louisiana state court case that 19 we think pretty clearly addresses this issue 20 and, you know, of course no case is a hundred 21 percent the same facts, but basically pretty 22 clearly says that, you know, when it comes to

information be converted? Yeah, but what we

electronic information, you know, can electronic

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1 would have to see is someone physically taking 2 possession of that electronic information of the 3 plaintiff's and depriving them of it. And if 4 you simply had a scenario where the electronic 5 information was transmitted from a plaintiff to 6 a defendant, but the plaintiff kept a copy, 7 defendant says that CamSoft kind of indicates 8 that that wouldn't cut it. In your brief you 9 cited some cases in support of your conversion 10 claim, but do you have a Louisiana state court 11 case that's about a conversion claim that really 12 strongly supports your position? 13 MR. HORTON: Yes, Your Honor. 14 Well, first, if I could address quickly the CamSoft decision. 15 16 THE COURT: Sure. 17 MR. HORTON: The CamSoft decision 18 was a summary judgment decision, Your Honor. 19 And what the court found was there wasn't 20 sufficient evidence and denied summary judgment 21 on that basis. It did not contemplate the 22 pleading standard for conversion under Louisiana 23 law, which is what we're talking about here in 24 the instant motion, Your Honor.

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The other thing I'd say about CamSoft is the CamSoft court also held that 3 software was not protectable under Louisiana conversion law, which is something that has been rejected by the Louisiana supreme court and Lancium itself acknowledges is incorrect in its 7 reply brief. And so if we're debating the correctness or applicability of CamSoft, I think both of those points are important and worth noting. In terms of --THE COURT: I guess, Mr. Horton, just to stop you briefly on the first point, you 12 13 said it in your brief to, but of course it's correct that CamSoft's summary judgment decision you say wasn't addressing the pleading standard, but what it was addressing, plaintiff says was addressing what the law requires as to these claims. You know, all the time we have 19 instances where like in a summary judgment 20 scenario you have to take a look at like what is required for this claim, you know, whether to 22 plead or prove it. And, you know, you can get a lot of level information from courts about what does a claim require and what just doesn't cut

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it. In a summary judgment decision that can be useful for a motion to dismiss. I guess if everything I'm saying is correct and I think it is, how come, you know, you may disagree with CamSoft for other reasons, but why is it the fact that the summary judgment decision is irrelevant here?

MR. HORTON: I think some of the facts that the CamSoft court relied on was lack of evidence on certain things. And so, Your Honor, to the extent, your point is well taken that a summary judgment opinion can inform, you know, what might be required under a pleading standard, but here the Court's discussion of those issues was focused on what the plaintiff did not do in terms of introducing evidence and sort of roundabout reached its conclusion on that basis. So I'm just suggesting that I think that's an important context that we have for CamSoft. And the other important point is, you know, the fact that there was another very wrong portion of the decision that I think Lancium's own positions are inconsistent with CamSoft and so we should note that.

1 THE COURT: Okay. All right. 2 then back to the question about, you know, the 3 case law that you cite. Do you have a Louisiana 4 state court case regarding conversion that you 5 think is pretty applicable on the facts? 6 MR. HORTON: Well, I think first, 7 Your Honor, I would go to the Louisiana supreme 8 court decision in their discussion as to what 9 constitutes conversion. We've been talking 10 about the Dual Drilling case, the Dilio case where the supreme court lace out the seven acts 11 12 that would constitute conversion. I think Your 13 Honor is exactly right in pointing to, for 14 example, the seventh action where the Louisiana 15 supreme court I think very intentionally chooses 16 the word ownership, you know, for instance, 17 separate from possession to illustrate that 18 concept. I also think it's important to note 19 that act number four, possession of, withheld 20 from the owner or possessor. That's exactly the 21 one act of conversion that I think Lancium is 22 trying to expand or I guess consolidate all acts 23 of conversion into, just number four, when the 24 others are much broader, including number one,

1 Your Honor, where it says possession is acquired 2 in an unauthorized manner. 3 THE COURT: Just to jump in. You 4 know, when I read the seven examples, you know, 5 I saw it in your brief that you were trying to 6 say like, well, four is an example of when you 7 physically take something from another person, 8 you know, and they don't have it anymore, but 9 look at all these others. But when I read them, 10 I don't know, it seems like all or almost all of them are meant to be talking about examples of 11 12 just that. You know, like number one, 13 possession is acquired in an unauthorized 14 manner. Well, I acquired possession, I took the 15 thing, you don't have it anymore. Number two, 16 the channel is removed from one place to 17 another, with the idea that you're going to exercise control over it. I took the thing. 18 19 have it. You don't have it anymore. Number 20 three possession of the channel is transferred 21 without authority. It's transferred, now I've 22 got it. You don't have it anymore. You know 23 what I mean? So I don't understand why -- why 24 is fourth only one of the possible conversion

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       scenarios that deals with the physical obtaining
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       of an item without the other side having it?
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                     MR. HORTON: I think, Your Honor,
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       the fact that it is explicit I think is
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       acknowledgement that each of those other
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       scenarios could have a situation where there's a
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       dual possession or a partial possession. And so
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       the fact that it is laid out explicitly, I
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       think, acknowledges that those other
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       possibilities exist. For example, number six,
       the channel was used improperly. Well, that
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       doesn't say who is possessing the channel at the
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       time, just that it's being used improperly.
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       Your Honor had the example about a car where
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       someone is making the argument that that's my
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            The plaintiff says no, it isn't.
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       imagine other scenarios where someone is trying
       to take out a loan as collateral on someone
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       else's house. They say it's their house. Well,
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       the plaintiff at all times had possession of
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       their house. So there's all kinds of these
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       examples that we think up and I think the
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       Louisiana supreme court was explicit when
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       articulating number four and saying that that
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alone is an act, but it's not necessarily required for any of the others. And I think it's also important, Your Honor, to look at, you know, what the supreme court says when it summarizes those seven acts. You know, I think in defendant's brief they used the word deprivation in an argument today. Deprivation is the word that's used, but the full quote from the Louisiana supreme court is conversion consists of an act of deprivation of the plaintiff's possessory rights, comma, and 12 deprivation is impairment or interference. 13 it goes on to say and any wrongful exercise of assumption of authority over another's goods depriving him of a possession permanently or an indefinite time is a conversion. What you've got there, Your Honor, is sort of that first statement of an act of deprivation as a 19 conversion and them where it gives an example of 20 a conversion. And I think that's more consistent with how the supreme court has laid out these seven types of conversion, an act of deprivation, interference with the plaintiff's

possessory rights and I think that it makes

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       sense that in the electronic context an
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       interference with the plaintiff's possessory
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       rights would be interference or elimination of
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       exclusive possession of electronic information,
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              It seems to flow that it would be
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       actionable or should be actionable under
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       conversion if a defendant has, for example,
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       taken a customer list or a schematic on how to
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       build a product and then used that information
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       to compete unfairly with the plaintiff who
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       possessed those things and still would possess
       those things, you know, unlawfully taking
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       profits and sales away from that plaintiff.
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       think that's exactly the type of act where
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       there's dual possession that would be actionable
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       under conversion. And in fact, there are
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       decisions that we've cited to in the briefing
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       that contemplate exactly that. The Mayville
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       decision, Your Honor, and explicit when it talks
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       about copied the schematic and used it to
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       compete unfairly and illegally with the
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       plaintiff.
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                     THE COURT: Do you think in
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       Mayville it's clear from the case that the owner
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       retained a copy of the information?
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                     MR. HORTON: I do, Your Honor.
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                     THE COURT: Okay. And then in
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       terms of the -- just one more question about the
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       way the supreme court explains the tort.
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       talked about number seven with the other side.
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       Are you asserting -- are you saying in your
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       complaint that in some way the defendants
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       asserted ownership over the channel, which I
       guess here is the electronic information that
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       passed between -- from plaintiff's side to
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       defendant's side?
                          And if you are, in what way
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       did they assert ownership of it?
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                     MR. HORTON: I think we are, Your
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               I think there's -- I think we
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       articulated in the briefing there's at least
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       four acts under Louisiana supreme court law that
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       we pled as actionable. Ownership I think is one
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       of them and that would be in the way in which
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       the defendants have taken the electronic
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       information and asserted ownership in terms of
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       modifying their business practices, soliciting
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       and obtaining investments in their business
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       based on their ability to practice the methods
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and really making money off of it, Your Honor.

They've asserted ownership over the information that way.

And if I could direct the court to a specific cite from Mayville to answer that question, Your Honor. It's to page 1 actually of the decision. And the quote is, the plaintiff left a schematic drawing with the defendant and later e-mailed a digital copy of the drawing. So that case actually contemplates exactly what we are a talking about here, e-mails the schematic and of course necessarily retaining a copy.

THE COURT: Okay. And I guess

lastly and more broadly, you know, how can it be
said that the defendant impaired the plaintiff's

possessory rights to the electronic information

if in the end the plaintiff still possessed the

electronic information? Is the answer that,

well, the definition of conversion is broader

than impairing possessory rights or is the

answer, well, they impaired our possessory

rights because we no longer had sole possession

of the information?

1 MR. HORTON: Yeah, I think that's 2 one important articulation, Your Honor. Ву 3 impairment by impairing the exclusive possession 4 of that information, going back to the example I 5 gave of a competitor acquiring a schematic. 6 both competitors have the schematic, but 7 previously the second competitor didn't have it, 8 now they have it, they're making a competing 9 product and now the market is split in purchases 10 of that product where otherwise it wouldn't have 11 that. 12 THE COURT: Okay. Anything 13 further you wanted to add, Mr. Kaufmann on this 14 conversion issue? Apologize. Mr. Kaufmann, 15 before I turn to you, I should give Mr. Horton a 16 chance to tell me if he had anything else. 17 Horton, did you have anything else before I turn back to Mr. Kaufmann? 18 19 MR. HORTON: There are other 20 decisions, Your Honor, that contemplate dual 21 possession of electronic information that I'd be 22 happy to draw the Court's attention to. One is 23 called Total Safety. It's 2019 WL 5964971. 24 of course they also cited Buena Vista is another

1 case that's in the briefing, Your Honor. think that was defendant's took issue with that 2 3 in the reply brief saying that the allegations 4 actually were that the electronic information 5 was copied but then the original version was 6 deleted. But that's actually not what happened 7 in Buena Vista. The conversion allegation was 8 that information was copied put in archive and 9 then a separate allegation of conversion was 10 that different information was deleted from the 11 plaintiff's server, so I wanted to make that 12 clarification for the Court. 13 THE COURT: I think you're talking 14 about Euro Veritas, am I right? 15 MR. HORTON: I'm sorry, yes. 16 THE COURT: Okay. Got it. Let me 17 go back to Mr. Kaufmann. Anything you want to say by way of brief rebuttal on the conversion 18 19 issue? 20 MR. KAUFMANN: Yes, Your Honor. 21 One, I'd point out that the Mayville case 22 predates CamSoft by three years maybe. It was a 23 2016 decision, CamSoft was from 2019. And of 24 course Mayville was an Eastern District of

Louisiana case which is not controlling 1 2 authority where of course CamSoft is. And Your 3 Honor, the total safety case Mr. Horton just 4 mentioned I don't believe is cited in the 5 briefing, so I don't believe that's an 6 appropriate authority to assert for the first 7 time in this argument. 8 THE COURT: I agree. If there are 9 cases that the parties find after they submitted 10 the briefing that they think are particularly 11 helpful, we have a way to do that which is to 12 file another supplemental brief if it's 13 something that, that's new. And if it's not, 14 you know, there should at least be a way to try 15 to give the other side a fair chance to respond 16 to it if they haven't heard it before, so I 17 understand your point there. 18 Okay. Let's move on to the unjust 19 enrichment issue. And again, I'll turn to 20 defendant's side first. And I quess, Mr. 21 Kaufmann, there there are two arguments you're 22 making, if I'm seeing it correctly, as to why 23 this claim should be dismissed. One is that the 24 plaintiff can't satisfy the fifth element, that

1 there be no other adequate remedy in law and the 2 second is the preemption claim. If you are 3 correct on either one of them, you prevail, am I 4 right about that? 5 MR. KAUFMANN: Yes, Your Honor. 6 Although actually I believe the first point that 7 BearBox can't establish the fifth element 8 applies no matter what. The preemption issue is 9 really just to -- we included that to address I 10 think a potential argument or an ambiguity that 11 I don't believe BearBox has actually asserted, 12 which is if they were to assert that their 13 unjust enrichment claim was based on 14 non-confidential information, the briefing 15 doesn't state that, doesn't make that assertion. 16 THE COURT: The presumption 17 affirmative defense only relates to the extent that the claim is meant to refer to 18 19 non-confidential information that was passed 20 along and I think right now you're saying you 21 don't actually think that's what the plaintiff 22 is alleging, but just in case they are, if they 23 were, you would have a preemption argument? 24 MR. KAUFMANN: That's correct.

THE COURT: Okay. I guess on the
preemption issue, just briefly since we're
talking about it, how come this you know, and
the briefing basically, just for the record the
briefing basically kind of is a dispute about
whether federal circuit law permits an unjust
enrichment claim outside of the alleged, you
know, enrichment with regard to confidential
information that may have been shared in a quasi
contract way. And I think you acknowledge that
federal circuit has said that, look, there can
be some circumstances if a plaintiff is alleging
that the defendant was unjustly enriched, even
in the patent world when it comes to information
that was provided based on the promise of
confidentiality, there can be ways in which that
kind of a claim can survive. But you say
otherwise in a circumstance like this where
we're dealing with a case of this nature, if
it's non-confidential information that's
transferred, federal circuit law just would not
let you make an unjust enrichment claim. Is
that right??
MR. KAUFMANN: That's correct,

Your Honor. There may be scenarios where an unjust enrichment claim could be based on confidential information, but not -- there can not be a situation where a conversion claim or I'm sorry, an unjust enrichment claim is based on use of non-confidential information, that wouldn't be preempted.

THE COURT: And how come this confidential/non-confidential distinction didn't come up the last time when we were having the motion to dismiss arguments about this kind of a claim?

MR. KAUFMANN: Well, Your Honor, because I think the nature of the allegations were just different previously. In the first amended complaint the allegations were that the patent, you know, what was patented was BearBox's technology and that the unjust enrichment was the incorporation of that technology into the patent. And that is -- a claim of that nature is preempted separately from the confidentiality issue. The claim is directly tied to whether the patent is the, is the basis of the unjust enrichment.

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THE COURT: Okay. I mean, going back and re-reading the briefing and the decision last time, it seems like the issue there just really solely turned on, you know, was the allegation in the complaint, one, as to this unjust enrichment claim, that it turned on an assertion of inventorship and if it was, my decision I highlighted a bunch of paragraphs where it seems like that's exactly what the plaintiff was saying, saying in my unjust enrichment claim, it's all about the real 12 inventor. They're not. And if so, that 13 implicated defense's preemption. Isn't that what was going on last time? And I quess, if it was or if it wasn't. Okav. Go ahead. MR. KAUFMANN: And the preemption issue there was federal patent law governs inventorship and so that was the basis of the 19 preemption of the prior alleged claim. 20 THE COURT: Okay. But maybe the alleged thing is slightly differently now and so we're getting a different argument for a motion to dismiss the claim on preemption grounds, is that right?

1 MR. KAUFMANN: That's correct. 2 THE COURT: Okay. And then you 3 also pointed -- on the preemption issue, you 4 pointed to the third circuit case Warinski and I 5 know you distinguish it in in part by saying you 6 don't think the case dealt with whether the 7 information at issue was allegedly confidential 8 or not. But otherwise, do you think the case 9 just got it wrong? Do you think that the third 10 circuit just kind of misinterpreted federal 11 circuit precedence? 12 MR. KAUFMANN: Your Honor, I think 13 they did. In fact, the Warinski case doesn't 14 even mention the Walter's case that dealt 15 with -- I'm sorry, not the Walter's case, the 16 federal circuit precedent on preemption. Ultra 17 Precision. 18 THE COURT: Okay. And then just 19 on the other issue, which would I guess be 20 entirely dispositive of the claim no matter what 21 confidential or non-confidential information is 22 at issue, there's no -- you know, dispute really 23 turns on like a case like Walters where the 24 supreme court has made it clear that, that when

1 it comes to this development, if there is an 2 adequate remedy at law, even one that the 3 plaintiff ultimately is successful on, you can't 4 make an unjust enrichment claim. And I quess, 5 is the way that, you know, that there is an 6 adequate remedy of law otherwise that the 7 plaintiff pleads such a remedy in a complaint? 8 Is that how you know that one exists or are 9 there other ways that you would know? 10 MR. KAUFMANN: Well, Your Honor, I 11 think there are potentially other ways that you could know. I suppose you could, even if there 12 13 was an unpled claim, the allegations in the 14 complaint satisfied the elements of an unpled 15 claim, that could be a situation again where the 16 unjust enrichment claim couldn't proceed. 17 Although, you know, here the trade secret claims 18 that were stricken, you know, again, are based 19 on the same conduct as the unjust enrichment 20 And, in fact, the trade secret claim 21 pled unjust enrichment as alleged harm from the 22 trade secret misappropriation. And so, you 23 know, those claims are clearly based on the same 24 conduct and the same with the conversion claim.

And, Your Honor, courts that have dealt with this issue like the Shaw case have found that, you know, it's not whether -- even if the claim fails as a matter of law, you know, the Shaw case found that two other claims based on the same conduct should also be dismissed as a matter of law, but the allegation of those claims based on the same conduct as the unjust enrichment still precluded the unjust enrichment claim.

that, you know, like what it means to have an alternative remedy at law. Let's say I had a complaint and there was like five claims and the last of which was unjust enrichment and they were all about the same conduct. You know, like, number one was breach of contract, number two was conversion, three, four, whatever, and then five is unjust enrichment and the defendant moves to dismiss -- and they're all under Louisiana law -- and defendant moves to dismiss all five and the Court looks at them and says, you know what, not one is dismissed. The plaintiff can't make out a plausible claim.

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Count two, dismissed as well. Plaintiff just simply cannot make out a plausible claim. with count three, same with count four and then you get to count five and you ask yourself, does the plaintiff have a, you know, an alternative remedy at law? Well, from the one hand the plaintiff pleaded that they did. You know, they pleaded four other claims based on the same basic conduct, but that the Court that's deciding whether they do just got through saying they don't. You know, they -- like the court looked at it and plaintiff can't make out a claim under count one, breach of contract or count two conversion. If you have a scenario like that, how can it be said that there is an adequate remedy at law if the Court says, as to all the other things the plaintiff tried, no. MR. KAUFMANN: Well, Your Honor, that's the guidance that the Louisiana supreme court has given and that's the scenario that the Court found in Shaw. Although here, I think we don't even need to get to that question, because the trade secret claim, you know, as Your Honor knows, those claims were not dismissed because

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       they failed to plead an adequate trade secret
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       claim. They were stricken because they were
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       untimely, so there's not an issue of whether
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       other claims could be pled that set forth a
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       viable claim. And in fact, in their briefing on
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       the motion to strike I believe BearBox was
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       adamant that they had adequately alleged the
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       elements of a trade secret claim and so because,
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       you know, that claim could have been available
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       to them, we don't -- we don't even need to get
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       to the issue of, you know, if the conversion
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       claim is stricken could that -- is there still a
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       claim they could have availed themselves of.
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       There is and it was the trade secret claims, at
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       least.
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                     THE COURT: Okay. Anything
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       further you want to say on this unjust
       enrichment issue, Mr. Kaufmann?
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                     MR. KAUFMANN: No, Your Honor.
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                     THE COURT: Okay. Let me then
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       turn to Mr. Horton on plaintiff's side with
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       these issues and why don't we start with the
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       fifth element issue. There I quess, you know,
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       why doesn't Walter's just settle the issue?
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The other side says it pretty clearly, in their view, says that, look, if you plead another type of claim based on the same basic content as an unjust enrichment claim, even if that other claim gets dismissed, you had an alternative essential remedy. And so you can't plead the fifth element. And the defendant would say, heck, even in the recent case, federal cases recognize that too like Andretti or Cytogel Pharma. How comes Walters doesn't just settle the issue?

MR. HORTON: Yes, Your Honor. I
think we recognize in the briefing there seems
to be a split in authority here. We recognize
the Walters decision, but there are decisions
subsequent to Walters and the Hall case
addresses Walters and distinguishes it. And the
split seems to be, Your Honor, federal court
versus state court and we think that makes sense
here because in federal court, now federal rule
civil procedure 8 which allows for pleading in
the alternative. And so we think because we're
in federal court with this case that the split

1 in authority should give, allow the unjust 2 enrichment claim to go forward. 3 THE COURT: I guess just to stop 4 you there, Mr. Horton. You mentioned Hall as 5 distinguishing Walters, but the way it 6 distinguished Walters, not even sure this is a 7 correct reading of Walters, but the way it 8 distinguished it was by saying well, Walters was 9 only talking about a scenario where the 10 alternative relief was a tort claim. And then 11 it went on to talk about how that wasn't the 12 case in Hall. Here, even if the way that Hall 13 was distinguishing Walters wouldn't help you, 14 right, because you've got alternative tort 15 claims that you're pleading, isn't that right? 16 MR. HORTON: That was said in the 17 Hall case, Your Honor, that's correct. The Hall 18 case also went on to say that the liberality of 19 rule 8 should be recognized and the Hall case 20 cites to the Richard versus Wal-mart case which 21 again relies on rule 8 which allows for pleading 22 in the alternative in federal court. 23 THE COURT: And on the rule 8 24 issue a number of cases that you cite reference

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But I mean, you know, there are cases that the other side points to that say, and I'm not sure why this is wrong, whether rule 8 or rule 9 is a matter of federal procedure allows a party to plead in the alternative, that doesn't have much to do with what's the substance of the elements of the claim under state law. And if the substance of an element of the claim was that you can't have another form of potential relief, it wouldn't matter what rule 8 or 9 lets you do because the actual substantive claim wouldn't permit a scenario like this. How does rule 8 or 9 get you out of this problem? MR. HORTON: Yeah, so I think, Your Honor, you alluded to this earlier, which is to say that, you know, how do you know which cause of action is going to provide for the remedy the plaintiff seeks until you know? at the pleading stage we don't know. And so I think, you know, for conversion I think we feel that the remedy is a disgorgement of the defendants ill gotten gains and we think we're entitled to that under conversion. But if it turns out that that's not right, then unjust

1 enrichment is meant to plug a gap in the law in 2 terms of remedies in what the plaintiff might 3 recover. And so until we know that for sure, I 4 think our positions is that unjust enrichment 5 should stay in the case to continue to plug that 6 potential gap, until we know for certain whether 7 there's a gap or not. And I think that's what 8 rule 8 contemplates in the federal procedure 9 context. 10 THE COURT: All right. And with 11 regard to the preemption issue, I guess one 12 question I have for you is the other side is 13 only making that argument to the extent that 14 your unjust enrichment claim is even alleged to 15 implicate information that is non-confidential. 16 You could tell me that the answer to that is no, 17 actually no, the whole claim is about information that is asserted to have been 18 19 confidential on the plaintiff's side. Is that 20 what's going on or does your unjust enrichment 21 claim also implicate some information that 22 wasn't confidential? 23 MR. HORTON: Well, Your Honor, I 24 think the claim certainly does contemplate

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information that is confidential. I think we've said that in the pleading. I think we said that in the briefing. At the pleading stage I would be hesitant to make a representation whether it's all constitutes confidential or not. don't think the Court needs to reach that conclusion, because the Rosinski case is on point and it doesn't contemplate confidentiality at all, it's simply saying that in order to avoid preemption you simply just cannot seek a patent-like remedy based on patent infringement. And we don't have that here. We're not seeking patent infringement damages. We don't even have a patent. I think we're contending that we should have the patent, but we don't yet. And in Warinski the facts are even less favorable to the plaintiff there because there the plaintiff did have the patent and the third circuit said as long as you're not asking for patent infringement damages then unjust enrichment cannot and will not be preempted. So I think that's really the only issue that the Court needs to address. THE COURT: And so I guess you're

1 saying -- is what you are saying to me, yes, 2 Judge, you should understand the unjust 3 enrichment claim to be alleging the unjust 4 enrichment of the defendants with regard to both 5 confidential and non-confidential information, 6 is that right? 7 MR. HORTON: I quess what I'm 8 saying, Your Honor, is I think the Court's 9 decision doesn't need to parse things that 10 finely. It can simply be a decision based on 11 the fact that the plaintiff is not seeking at 12 like remedies under unjust enrichment and on 13 that basis cannot be preempted by patent law. 14 THE COURT: I'm asking partly from 15 an efficiency perspective because if you told me 16 the only thing you're alleging was used and 17 generated unjust enrichment was confidential information, then, you know, I don't have to 18 19 make a decision on a whole big part of the 20 briefing here. But if you're telling me the 21 opposite, then I might, so that's why I'm 22 asking. 23 MR. HORTON: Understood, Your 24 Honor.

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                     THE COURT: So humor me, which one
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       is it?
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                     MR. HORTON: Fair enough, Your
              Confidential information.
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 5
                     THE COURT: So only confidential
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       information is being alleged to have been used
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       in a way that unjustly enriched the other side?
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                     MR. HORTON: I think the pleading
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       is broader than that, Your Honor, but that's the
10
       claim I see going forward, is unjust enrichment
11
       based on confidential information.
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                     THE COURT: Okay. All right.
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       Anything further you wanted to add, Mr. Horton?
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                     MR. HORTON: No, Your Honor.
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                     THE COURT: Okay. All right.
16
       Kaufmann, anything more you want to say about
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       the unjust enrichment issue?
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                     MR. KAUFMANN: Your Honor, I'd
19
       just reiterate the point Your Honor noted that
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       controlling precedent here, Walters in the
21
       Louisiana supreme court and the fifth circuit
22
       precedent have established that unjust
23
       enrichment can not be pled in the alternative.
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       Here, rule 8, federal rule 8 does not save the
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1 claim as you noted. It is a substantive element 2 of the claim that there can be no other remedy 3 at law and here BearBox's own allegations show 4 that there was other claims they could have 5 availed themselves of and so here the unjust 6 enrichment claim just can't be sustained. 7 THE COURT: Okay. All right. 8 Thanks, counsel. Appreciate your arguments. 9 I'll take a short time to think about it and 10 then I'll intend to issue a short report and 11 recommendation in the very near future so that 12 the parties will have an answer here. 13 Appreciate everyone's time today. Wish everyone 14 continued health and safety. Unless there's 15 anything further, we can end our teleconference 16 today and go off the record. Take care, 17 everybody. 18 (End at 1:58 p.m.) 19 20 21 22 23 24

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC and AUSTIN STORMS,)
Plaintiffs,)
v.) C.A. No. 21-534-MN-CJB
LANCIUM LLC, MICHAEL T. MCNAMARA, and RAYMOND E. CLINE, JR.))) FILED UNDER SEAL)
Defendants.)

DEFENDANTS' OPENING BRIEF IN SUPPORT OF THEIR MOTION FOR SUMMARY JUDGMENT

Dated: June 15, 2022 BARNES & THORNBURG LLP

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Waner v. Ford Motor Co., 331 F.3d 851 (Fed. Cir. 2003)	34, 36
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2	Reply Report of Frank McCamant, dated May 19, 2022
3	Expert Report of Dr. Stan McClellan, dated April 5, 2022
4	Reply Expert Report of Dr. Stan McClellan, dated May 20, 2022
5	Excerpts from Deposition Transcript of Stanley A. McClellan
6	Excerpts from Ercot Market Mechanisms Report prepared by Shams Siddiqi, Ph.D., dated May 6, 2022
7	Excerpts from Deposition Transcript of Austin Storms
8	Confidentiality Agreement between BearBox, LLC and Glidepath Development LLC dated December 10, 2018, produced by BearBox in this case with Bates numbers BB10000736 – BB10000741
9	Email from Austin Storms to Todd @buysellads attaching files, produced by BearBox in this case with Bates numbers BB00000911 – BB00000923
10	Email from Austin Storms to Michael McNamara attaching BearBox's Product Details Summary, produced by BearBox in this case with Bates numbers BB00000090 – BB00000097
11	BearBox tweets, produced by BearBox in this case with Bates numers BB00000717 – BB00000731
12	WO 2019/139632 Patent Application, produced by Lancium in this case with Bates numbers LANCIUM00000050 - LANCIUM00000093
13	U.S. Patent No. 11,016,456, produced by Lancium in this case with Bates numbers LANCIUM00013636 – LANCIUM00013658
14	Email from Michael McNamara to Eric Kutscha, Jon Cohen and Raymond Cline attaching BearBox product details summary, produced by Lancium in this case with Bates numbers LANCIUM00014645
15	Excerpts from the File History of U.S. Patent 10,608,433, produced by BearBox in this case with Bates numbers BB00000319 - BB00000667
16	Excerpts from a Text message report between Austin Storms and Ben Hakes dated between 12/5/2018 – 4/28/2021, produced by BearBox in this case with Bates numbers BB10003955 – BB10004026
17	U.S. Patent No. 10,608,433
18	Text message report between Austin Storms and Michael McNamara dated between 5/4/2019 – 5/9/2019, produced by BearBox in this case with Bates numbers BB10004959 – BB10004961

19	Complaint filed by Lancium against Layer1 Technologies in the Western District of Texas on August 14, 2020, produced by Lancium in this case with Bates numbers LANCIUM00016546 – LANCIUM00016554
20	Excerpts from Plaintiffs' Supplemental Objections and Responses to Defendants' First Set of Interrogatories (Nos. 1-9), dated November 9, 2021
21	Excerpts from Defendants' Second Set of Supplemental Response to Plaintiffs' Interrogatory No. 3, dated December 23, 2021
22	Excerpts from Hearing Transcript re: Motion to Strike and Discovery Dispute, dated April 22, 2022
23	Excerpts from Plaintiff's Objections and Responses to Defendants' First Set of Requests For Admission (Nos. 1-33), dated November 22, 2021

I. INTRODUCTION

Plaintiffs Austin Storms ("Storms") and BearBox LLC ("BearBox") have three remaining claims against Defendants Lancium LLC ("Lancium"), Michael T. McNamara ("McNamara"), and Raymond E. Cline, Jr. ("Cline"). First, Plaintiffs assert a claim that Storms is the sole inventor of U.S. Patent No. 10,608,433 (the "'433 patent") (Count I of the Second Amended Complaint). Second, in the alternative, Plaintiffs assert a claim that Storms is a joint inventor of the '433 patent (Count II). Third, Plaintiffs assert a claim for conversion of so-called "BearBox technology" (Count V). All of these claims are based on information allegedly provided by Storms to McNamara via their only three communications: (1) a May 3, 2019 conversation at a group dinner attended by several other competitors following a cryptocurrency mining summit; (2) a series of text messages from May 3-9, 2019 following the dinner; and (3) a single email that Storms sent McNamara on May 9, 2019. Based on these extremely limited communications, and despite Defendants' years of innovation and investment in research and development, Plaintiffs allege that Defendants wrongly filed a patent on Storms' alleged invention more than five months after Storms and McNamara last communicated. Likewise, Plaintiffs seek millions of dollars in damages for Defendants' alleged conversion of a small amount of allegedly confidential information in one attachment to Storms' email by purportedly using that information to modify Defendants' Smart ResponseTM software that is used to control datacenters.

Plaintiffs' claims, however, all fail as a matter of law. Indeed, Plaintiffs' inventorship claims are based on a fundamentally incorrect interpretation of two key claim terms found in every claim of the '433 patent. Plaintiffs rely on this misinterpretation to assert that Storms' "BearBox technology" discloses the inventions of the '433 patent even though these technologies are not only different, they are inconsistent. Plaintiffs' sole inventorship claim thus fails as a matter of law because there is no evidence, much less clear and convincing evidence that could meet their heavy

burden, that Storms conceived of or communicated the inventions of the '433 patent, as properly construed, to Defendants. Likewise, regarding Plaintiffs' joint inventorship claims, they cannot prove, much less by clear and convincing evidence, that Storms made a significant contribution to the '433 patent. In addition, the limited communications between Storms and McNamara cannot, as a matter of law, establish that Storms and McNamara collaborated on the inventions of the '433 patent, as is required for a joint inventorship claim. Furthermore, Plaintiffs' conversion claim is barred by the applicable one-year statute of limitations and is preempted by federal patent law because it is based on the alleged use of information that, as a matter of law, is not confidential. Accordingly, the Court should grant summary judgment for Defendants on all three of Plaintiffs' remaining claims.

II. FACTUAL BACKGROUND

A. Lancium and Its Technology

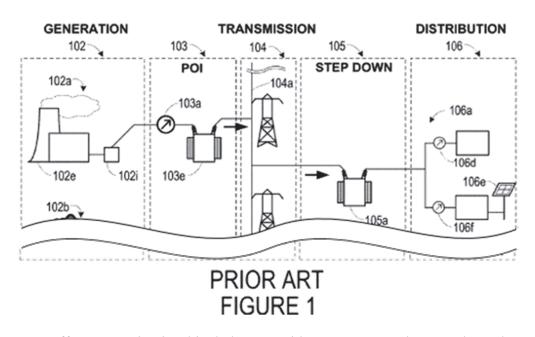
Lancium is a technology company founded in 2017, to, among other things, create software and intellectual property solutions that enable more renewable energy on the nation's power grid, and Lancium began to do so immediately. For example, in February 2018, Lancium, including McNamara and Cline, filed a patent application titled "Method and System for Dynamic Power Delivery To a Flexible Datacenter Using Unutilized Energy Sources," that published as International Publication No. WO 2019/139632A1 (the "'632 application") and later issued as U.S. Patent No. 11,016,456. SOF ¶6-9; Ex. 12; Ex. 13. Lancium's technology, as explained in the '632 patent, permits a "flexible data center" to "ramp-up to a fully online status, ramp-down to a fully offline status, or dynamically reduce power consumption," where "the flexible datacenter may perform computational operations, such as blockchain hashing operations" (e.g., Bitcoin mining) "with little to no energy costs, using clean and renewable energy that would otherwise be wasted." Ex. 12 at [0022].

Lancium continued to innovate and by the end of 2018 had filed numerous other patent applications that led to numerous patents such as U.S. Patent No. 10,873,211 (filed September 13. 2018) titled "Systems and Methods for Dynamic Power Routing with Behind-the-Meter Energy Storage," U.S. Patent No. 10,444,818 (filed October 30, 2018) titled "Methods and Systems for Distributed Power Control of Flexible Datacenters," and U.S. Patent No. 10,367,353 (filed October 30, 2018) and "Managing Queue Distribution between Critical Datacenter and Flexible Datacenter." D.I. 28 ¶ 24.

B. United States Patent No. 10,608,433

Through 2019, Lancium continued to innovate and invest in research and development, eventually leading to the filing of U.S. Provisional Patent Application No. 62/927,119 on October 28, 2019 (SOF ¶1; Ex. 21 at 32-33 and documents cited therein) and the follow-on U.S. Nonprovisional Patent Application No. 16/702,931 on December 4, 2019, which issued as the '433 patent, titled "Methods and Systems for Adjusting Power Consumption Based on A Fixed-Duration Power Option Agreement." SOF ¶¶2-4; Ex. 17.

The technology of the '433 patent at issue in this case relates to systems and methods for adjusting the amount of power available on the electrical grid. As depicted in its Figure 1, of which an excerpted version is shown below, an electrical grid typically includes: (i) power generation stations (e.g., nuclear power plants 102a) that produce electricity, (ii) transmission lines 104 that carry the power from the generation stations to demand centers (i.e., consumers), and (iii) distribution networks 106 that carry power to individual consumers. Ex. 17 at 1:26-4:8. To maintain stability on the grid, the grid operator strives to maintain a balance between the amount of power entering the grid (via generators) and the amount of grid power used by loads (e.g., customers in the distribution segment 106). Ex. 17 at 4:9-13.



In an effort to maintain this balance, grid operators, such as Independent Service Organizations ("ISOs") have various tools at their disposal, some of which are called ancillary services. Ancillary services are programs that give ISOs some amount of control over the amount of power being consumed by loads on the grid in real time in order to balance the amount of power being consumed with the amount of power available. In order to provide this ability, specially qualified loads can bid into the "day-ahead" ancillary services market where the loads offer a specific minimum amount of load (i.e., power in megawatts (MW)) that they commit to use during specific hourly periods the following day (i.e., the "operating day"). If the offer is accepted (i.e., "awarded") by the ISO, the ISO will pay the load for guaranteeing that the load will use the committed minimum amount of power during each specific hourly period the next day while simultaneously providing the ISO with the option to reduce (i.e., "curtail") that power use in real

¹ See, e.g., Ex. 1 at 18 ("ERCOT needs system capacity for two reasons: first for energy dispatch to meet real time system demand, and second as a reserve available to respond to large and small operational fluctuations. This reserve capacity is what is used for Ancillary Services...")

² See, e.g., Ex. 1 at 24 ("Qualified LRs ... may provide operating reserves in the ERCOT AS markets.")

time that next day by up to the committed amount, in order to balance generation and consumption of power on the grid.³ The load is obligated to use at least the committed minimum power amount;⁴ otherwise, the ISO could not exercise its option in real time to reduce load on the network up to the committed power amount. Plaintiffs do not dispute how ancillarly service programs work.⁵

C. Austin Storms and BearBox

Austin Storms and his company BearBox, in late 2018 and early 2019, sought to develop cryptocurrency mining technology. D.I. 103 at ¶ 29. In particular, Plaintiffs worked to develop a portable container called a "BearBox" that contained cryptocurrency miners (i.e., computers that can perform cryptocurrency mining operations). Ex. 7 at 45:2-17. BearBox, however, only ever built one BearBox, which it eventually sold for no profit. Ex. 7 at 45:18-23; 48:6-7.

D. Storms' Communications with McNamara

On May 3, 2019, Storms attended the Fidelity FCAT Mining Summit in Boston where he explained he was "[g]onna poke around and figure out if anyone else is doing what we're working on." Ex. 16 at BB10003996. At the conference, Storms met McNamara and the two went to a group dinner attended by approximately six others, including competitors in the Bitcoin mining field. SOF ¶10-11; D.I. 41 at ¶¶ 38, 40-41; D.I. 28 at ¶¶ 38, 40-41. Storms and McNamara's conversation at the dinner occurred in front of these other attendees, and this was their only oral

³ Ex. 6 at 17 ("Awarded Ancillary Service Offers, specifying ... MW ... and price, for each hour of the awarded offer."); Ex. 1 at 24 ("Load Resources that are scheduled or selected in the ERCOT Day-Ahead AS Markets are eligible to receive a capacity payment regardless of whether they are actually curtailed.")

⁴ Ex. 6 at 14 ("Ancillary Service (AS) awards are physically binding.")

⁵ Dr. Siddiqi describes ancillary service market operation in significant detail in his expert report; Plaintiff's ISO market expert Mr. McCamant states that Dr. Siddiqi's "report is an accurate account of how the ERCOT market functions," and does not dispute the factual operation of the ancillary service market. Ex. 2 at 5.

communication. SOF ¶¶11, 14; D.I. 41 at ¶ 43; D.I. 28 at ¶ 43; Ex. 23 at 9. Shortly thereafter, Storms wrote to an individual, Ben Hakes, with whom he had been working and explained that: "The guys at Lancium *are doing* what *we are trying to do exactly*, but they don't have a container builder or software team yet. Mike's pretty interested in my solution." Ex. 16 at BB10004001.7

Following the dinner, from May 3 to May 9, 2019, Storms and McNamara exchanged a handful of text messages, which mostly involved McNamara's request for specifications on the BearBox container. SOF ¶12; Ex. 18. And on May 9, 2019, Storms emailed McNamara a specification sheet for his BearBox as well as a handful of other documents. *See* SOF ¶13; Ex. 10. This was the last communication between Storms and any of Defendants. SOF ¶13; D.I. 103 at ¶ 36.

Following receipt of Storms' email, McNamara forwarded it to a few others at Lancium on May 9, 2019, explaining that "[w]e met this guy at the fidelity conference. ... His box seems very expensive though." Ex. 14. There were no responses to McNamara's email.

In addition, none of the attachments to Storms' email were marked as confidential and Storms has testified that three of the attachments were publicly available product specification sheets. SOF ¶16; Ex. 7 at 213:5-214:5; Ex. 10. The fourth attachment contains the BearBox product specification sheet as well as a drawing titled "BearBox Automatic Miner Management System Version 1.0" that Storms also posted on BearBox's public Twitter account. SOF ¶¶19-20; Compare Ex. 10 at BB00000092, with Ex. 11 at BB00000718. Plaintiffs also do not assert that this attachment is confidential. SOF ¶18; Ex. 7 at 217:13-23. The only reference to confidentiality in

⁶ All emphases added unless otherwise noted.

⁷ Storms also stated "[T]hey want my logic for curtailing miners on DA and RTMB LMP – all over dinner Friday night and several bottles of wine, they told me they were looking into Digital Shovel, but their Schneider Electric/Siemens engineer was worried about 480/277v because of potential liability..." Ex. 16 at BB10004002.

that "[t]his email communication *may* contain private, confidential, or legally privileged information intended for the sole use of the designated and/or duly authorized recipient(s)." SOF ¶16; Ex. 7 at 217:6-12; Ex. 10 at BB00000090. Moreover, Storms did not have a confidentiality or nondisclosure agreement with McNamara or any of Defendants although he did have such agreements with other third parties. *See, e.g.*, Ex. 7 at 70:4-6, 124:7-13; Ex. 8.

Plaintiffs learned of the '433 patent and Defendants allegedly wrongful use of BearBox's technology on August 17, 2020 when Storms saw a press release about a lawsuit Lancium filed for infringement of the '433 patent. SOF ¶22; D.I. 103 at ¶¶ 52-54. Nonetheless, and despite the fact that Storms never sought to file a patent on his alleged invention, Plaintiffs waited until April 14, 2021 to file this lawsuit. Ex. 7 at 290:7-16. Indeed, Plaintiffs did not file this lawsuit until after a press release was issued announcing the settlement of the earlier infringement suit regarding the '433 patent and that the defendant in that lawsuit licensed Lancium's intellectual property. D.I. 103 at ¶¶ 56-57.

E. Procedural History

Plaintiffs' claims in this case have continually changed since the original Complaint was filed on April 14, 2021. D.I. 1. Plaintiffs' originally asserted claims, *inter alia*, for trade secret misappropriation, but a little over a month later withdrew these claims and filed an Amended Complaint. *See* D.I. 19. Defendants then moved for judgment on the pleadings regarding Plaintiffs' claims for conversion, unjust enrichment, and negligent misrepresentation, which the Court granted dismissing Plaintiffs' conversion and unjust enrichment claims without prejudice as preempted by federal patent law and dismissing the negligent misrepresentation claim with prejudice. D.I. 92; D.I. 97. Two days before the close of fact discovery, Plaintiffs then filed the Second Amended Complaint asserting new, different conversion and unjust enrichment claims and

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re-asserting claims for trade secret misappropriation. D.I. 89 (order adopting stipulated, amended scheduling order); D.I. 103 (Second Amended Complaint). The Court, however, granted Defendants' motion to strike the re-asserted trade secret claims. See 4/25/22 Minute Entry. Magistrate Judge Burke has also recommended granting Defendants' motion to dismiss the new unjust enrichment claim, and Plaintiffs have not objected to this recommendation. 8 D.I. 143.

Accordingly, Plaintiffs have three remaining claims: First, Plaintiffs' claim that Storms should be substituted as the sole inventor of the '433 patent (Count I). Second, Plaintiffs' alternative claim that Storms should be found to be a joint inventor of the '433 patent (Count II). Third, Plaintiffs' claim that Defendants converted certain technology relating to energy arbitrage that Storms purports to have provided to McNamara (Count V). D.I. 103. As explained herein, summary judgment is appropriate because each of these claims fail as a matter of law.

III. LEGAL STANDARD

The court shall grant summary judgment if the movant shows that there is no genuine dispute as to any material fact and the movant is entitled to judgment as a matter of law." Fed. R. Civ. P. 56(a). To defeat a motion for summary judgment, the nonmoving party must "do more than simply show that there is some metaphysical doubt as the material facts." Matsushita Elec. Indus. Co. v. Zenith Radio Corp., 475 U.S. 574, 586 (1986). A factual dispute is only genuine where "the evidence is such that a reasonable jury could return a verdict for the nonmoving party." Anderson v. Liberty Lobby, Inc., 477 U.S. 242, 247-48 (1986). The "mere existence of some alleged factual dispute between the parties will not defeat an otherwise properly supported motion for summary judgment." Id.

IV. **ARGUMENT**

⁸ Defendants also have pending objections to Magistrate Judge Burke's recommendation to deny Defendants' motion to dismiss Plaintiffs' new conversion claim. D.I. 146.

A. Plaintiffs' Sole Inventorship Claim Fails As A Matter Of Law Because There Is No Evidence Austin Storms Conceived Of The Inventions Claimed In The '433 Patent Or Communicated The Inventions To Defendants.

The '433 patent invented systems and methods that can be used to adjust power consumption of computing systems (e.g., cryptocurrency or Bitcoin miners) that can be used, *inter alia*, to participate in ancillary services programs. Although Plaintiffs have previously avoided specifically explaining how they claim Storms' so-called "BearBox technology" encompasses and relates to the claimed technology of the '433 patent, during expert discovery it became clear that Plaintiffs' inventorship claims are premised on a fundamentally incorrect interpretation of two key claim terms appearing in every claim of the '433 patent: (1) "power option agreement"; and (2) "minimum power threshold." This is significant because resolution of Plaintiffs' inventorship claims requires proper construction of these claim terms, and there is simply no evidence that Storms conceived of, much less communicated, the inventions of the '433 patent as properly construed. Thus, summary judgment denying Storms claim of sole inventorship of the '433 patent should be granted.

1. Applicable Legal Principles

a. Inventorship

Inventorship is a question of law premised on underlying questions of fact. *Eli Lilly and Co. v. Arandigm Corp.*, 376 F.3d 1352, 1362 (Fed. Cir. 2004). Patent issuance creates a presumption that the named inventors are the true and only inventors, and that people not named are not to be inventors. *Scott v. Zimmer, Inc.*, 889 F. Supp. 2d 657, 662 (D. Del. 2012). A person seeking to add himself/herself as an inventor, therefore, "must meet the heavy burden of proving [his/her] case by clear and convincing evidence." *Id.*; *Eli Lilly*, 376 F.3d at 1358. Inventorship, therefore, is often decided as a matter of law, including at summary judgment. *See*, *e.g.*, *Symantec Corp. v. Computer Associates Intern., Inc.*, 522 F.3d 1279, 1295-96 (Fed. Cir. 2008) (affirming

summary judgment of no inventorship); *Univ. of Utah v. Max-Planck-Gesellschaft Zur Foerderung Der Wissenschaften E.V.*, 851 F.3d 1317 (Fed. Cir. 2017) (same); *Wagner v. Simpson Performance Prod., Inc.*, Civ. No. 5:18-CV-00123-KDB-DCK, 2021 WL 411144, at *2 (W.D.N.C. Feb. 5, 2021), aff'd sub nom. *Wagner v. Ashline*, No. 2021-1715, 2021 WL 5353889 (Fed. Cir. Nov. 17, 2021) (granting summary judgment of no inventorship because Plaintiff failed to provide sufficient evidence to corroborate its claim of co-inventorship); *Eli Lilly*, 376 F.3d at 1364 (reversing jury's verdict that unnamed inventor was a joint inventor because the evidence was insufficient to meet the clear and convincing standard).

The inventorship analysis first requires construction of each disputed claim to determine the subject matter encompassed. *Gemstar-TV Guide Int'l, Inc. v. Int'l Trade Comm'n*, 383 F.3d 1352, 1381-82 (Fed. Cir. 2004). Then, "[t]o state a claim for complete substitution of inventors under Section 256," a plaintiff must establish that "(1) the erroneously omitted inventor conceived the invention claimed in the patent *and* (2) the named inventor on the patent did *not* conceive the invention." *Iceotope Grp. Ltd. v. LiquidCool Sols., Inc.*, No. 20-CV-2644, 2022 WL 204923, at *2 (D. Minn. Jan. 24, 2022) (emphasis in original) (citing to *CODA Dev. S.R.O. v. Goodyear Tire & Rubber Co.*, 916 F.3d 1350, 1358 (Fed. Cir. 2019)).

Ultimately, conception is the touchstone of inventorship. *Gemstar*, 383 F.3d at 1381. Conception is "the formation in the mind of the inventor of a definite and permanent idea of the complete and operative invention." *Id.* Conception is complete when one of ordinary skill in the art could construct the apparatus, perform the process, or make the composition without unduly extensive research or experimentation. *Trovan Ltd. v. Sokymat SA, Irori*, 299 F.3d 1292, 1302 (Fed. Cir. 2002). A would-be inventor's contribution must have been to the conception of the claims, not something outside the claims. *Scott*, 889 F. Supp. 2d, at 662.

A would-be inventor's proof of conception, however, must be more than simply his/her testimony. "To prove [his or her] contribution, the purported inventor must provide corroborating evidence of any asserted contributions to the conception." *Acromed*, 253 F.3d at 1379 (internal citations and quotations omitted); *see also Ethicon, Inc. v. U.S. Surgical Corp.*, 135 F.3d 1456, 1461 (Fed. Cir. 1998). Indeed, a would-be inventor's testimony regarding their own inventorship claim is "regarded with skepticism." *Scott*, 889 F. Supp. 2d at 664. Would-be inventors, therefore, must supply evidence to corroborate their testimony. *Symantec*, 552 F.3d at 1295. The sufficiency of the corroborating evidence is evaluated under a rule of reason analysis, which requires that an evaluation of all pertinent evidence be made so that a sound determination of the credibility of the alleged inventor's story may be reached. *Id.*; *Gemstar*, 383 F.3d at 1382.

b. Claim Construction

"When the parties raise an actual dispute regarding the proper scope of these claims, the court, not the jury, must resolve that dispute." *O2 Micro Int'l Ltd. v. Beyond Innovation Tech. Co.*, 521 F.3d 1351, 1360 (Fed. Cir. 2008). A district court "may engage in claim construction during various phases of litigation" and is "well within its power to clarify, supplement, and even alter its construction" of disputed terms "in its summary judgment order." *Level Sleep LLC v. Sleep No. Corp.*, No. 2020-1718, 2021 WL 2934816, at *3 (Fed. Cir. July 13, 2021).

"Words of a claim are generally given their ordinary and customary meaning, which is the meaning a term would have to a person of ordinary skill in the art after reviewing the intrinsic record at the time of the invention." *O2 Micro*, 521 F.3d at 1360 (citing *Philips v. AWH Corp.*, 415 F.3d 1303, 1312-13 (Fed. Cir. 2005)). "A determination that a claim term 'needs no construction' or has the 'plain and ordinary meaning' may be inadequate when a term has more than one 'ordinary' meaning or when reliance on a term's 'ordinary' meaning does not resolve the parties' dispute." *Id.* at 1361. "To determine the meaning of the claims, courts start by considering the

intrinsic evidence," which "includes the claims themselves, the specification, and the prosecution history." *Philips*, 415 F.3d at 1312-1314. "[C]laims 'must be read in view of the specification, of which they are a part." *Id.* "[T]he specification 'is always highly relevant to the claim construction analysis. Usually, it is dispositive; it is the single best guide to the meaning of a disputed term." *Id.* Expert testimony may aid a court in understanding the underlying technology and determining the particular meaning of a term in the pertinent field, but an expert's conclusory, *unsupported* assertions as to a term's definition are entirely unhelpful to a court. *Phillips*, 415 F.3d at 1317 (emphasis in original).

2. There Is No Evidence That Austin Storms Communicated The Inventions Of The '433 Patent To Defendants.

a. Proper Claim Construction of "Power Option Agreement"

Claim Term	Defendants' Construction	Plaintiffs' Construction
"power option agreement" ('433 patent, independent claims 1, 17, & 20)	an agreement between a power entity associated with the delivery of power to a load and the load, wherein the load provides the power entity with the option to reduce the amount of power delivered to the load up to an agreed amount of power during an agreed upon time interval such that the load must use at least the amount of power subject to the option during the time interval	Plain and ordinary meaning

On October 15, 2021, the parties indicated to the Court that they did not seek claim construction at that time and would advise, or seek construction, if developments suggested otherwise. *See* D.I. 61; D.I. 63. During expert discovery it has become apparent that Plaintiffs seek to ignore the clear meaning of "power option agreement" as established by the intrinsic evidence, and instead assert a purported "plain and ordinary" meaning that they contort to support their

inventorship claims. The intrinsically-supported clear meaning of power option agreement is: "an agreement between a power entity associated with the delivery of power to a load and the load, wherein the load provides the power entity with the option to reduce the amount of power delivered to the load up to an agreed amount of power during an agreed upon time interval such that the load must use at least the amount of power subject to the option during the time interval." However, Plaintiffs improperly depart from the intrinsic evidence and instead use a purported "plain and ordinary" meaning under which their expert, Dr. Stanley McClellan, describes the power option agreement as "an agreement [by the load] to purchase a certain amount of power at a certain time at a certain price." Ex. 3 at ¶ 49; Ex. 5 (McClellan Dep. Tr.) at 90:2-13. Dr. McClellan further contends that the "option" is the load "buying power ahead of time," which the load can then decide to use the power or not. Ex. 5 at 157:1-18. Plaintiffs' interpretation of "power option agreement" is fundamentally inconsistent with the patent specification, which specifically describes and provides examples related to the term. As such, construction of this term is needed because "[a] determination a claim term 'needs no construction' or has the 'plain and ordinary meaning' may be inadequate when a term has more than one 'ordinary' meaning or when reliance on a term's 'ordinary' meaning does not resolve the parties' dispute." O2 Micro, 521 F.3d at 1361.

It is well-established that "claims must be read in view of the specification, of which they are a part" and "the specification is always highly relevant to the claim construction analysis. Usually it is dispositive; it is the single best guide to the meaning of a disputed term." *Phillips*, 415 F.3d at 1315 (internal quotations omitted). Here, the specification is dispositive and explains in great detail that a "power option agreement" is an agreement between a power entity (such as a grid operator) and a load (such as a datacenter) that gives the power entity the option to reduce the

amount of power delivered to the load, up to an agreed amount during an agreed time interval.⁹ Indeed, the '433 patent explains that:

"In general, a power option agreement is an agreement between a power entity 1140 associated with the delivery of power to a load (e.g., a grid operator, power generation station, or local control station) and the load (e.g., the datacenters 1102-1106). As part of the power option agreement, the load (e.g., load operator, contracting agent for the load, semi-automated control system associated with the load, and/or automated control system associated with the load) provides the power entity 1140 with the right, but not obligation, to reduce the amount of power delivered (e.g., grid power) to the load up to an agreed amount of power during an agreed upon time interval." Ex. 17 at 43:46-57.

The specification further explains that the power option agreement gives the power entity this optionality as a tool to balance the supply and demand for power on the grid:

"The power option agreement may be used by the power entity 1140 to reserve the right to reduce the amount of grid power delivered to the load during a set time frame (e.g., the next 24 hours). For instance, the power entity 1140 may exercise a predefined power option to reduce the amount of grid power delivered to the load during a time when the grid power may be better redirected to other loads coupled to the power grid. As such, the power entity 1140 may exercise power option agreements to balance loads coupled to the power grid." Ex. 17 at 44:3-12.

The '433 patent even gives an example of how a power option agreement could work:

"To illustrate an example, a power option agreement may specify that a load (e.g., the datacenters 1102-1106) is required to use at least 10 MW or more at all times during the next 12 hours. ... In order to comply with the agreement, the load must subsequently operate using 10 MW or more power at all times during the next 12 hours. This way, the load can accommodate a situation where the power entity 1140 exercises the option. Particularly, exercising the option may trigger the load to reduce the amount of power it consumes by an amount up to 10 MW at any point during the 12 hour interval. By establishing this power option agreement, the power entity 1140 can manipulate the amount of power consumed at the load during the next 12 hours by up to 10 MW if power needs to be redirected to another load or a reduction in power consumption is needed for other reasons." Ex. 17 at 44:17-35.

Furthermore, the '433 patent explains that a load may enter into a power option agreement and

⁹ The prosecution history does not alter the meaning of "power option agreement" as established by the specification because the '433 patent issued without any rejections by the examiner. *See* SOF ¶5; Ex. 15 at BB0000553-62 (1/27/20 Notice of Allowance)

give the power entity the ability to exercise the option in return for monetary consideration from the power entity, such as payment from the power entity or a reduced price for power. Ex. 17 at 43:65-44:2.

The meaning of the term that Plaintiffs apply is flatly inconsistent with the meaning established by the '433 patent's specification. As an initial matter, although Plaintiffs' expert, Dr. McClellan, purported to apply the "plain and ordinary meaning" of the term to his inventorship analysis, he asserts that a system that "calculated profitability at distinct time intervals" demonstrates conception of claim elements including this term, even though that has nothing do with a "power option agreement" as described by the '433 patent. Ex. 3 at ¶¶ 49, 62. And Dr. McClellan confirmed his misinterpretation of the claim at his deposition. Indeed, Dr. McClellan testified that he interpreted "power option agreement" to mean "essentially a contract to buy power at a certain price. It's like a wholesale purchase. I'm going to buy X number of units at X price." Ex. 5 at 83:5-10. Dr. McClellan further testified that his understanding of the "plain and ordinary meaning" of the term is "opting to purchase power ahead of time at a certain rate and then I'm going to pay for that power, and then when it comes for that time I'm going to pay for that power whether I use it or not." Ex. 5 at 157:1-18. He then gave the example of "I'm going to pay for that power, that's the option. When it comes time, I'm going to pay for that whether I use it or not. I don't have to use it. I can screw in that light bulb and turn off the switch, and I'm still paying for that minimum power." Ex. 5 at 157:1-18. Thus, Plaintiffs and their expert misinterpret "power option agreement" as an agreement that gives the purchaser (i.e., the load) the option to use power rather than an agreement that requires the load to use a certain amount of power and gives a power entity the option to reduce the amount of power used by the load.

Based on the clear guidance the specification of the '433 patent provides to a person of

ordinary skill in the art regarding the meaning of "power option agreement," the Court should resolve the parties' dispute and construe this term using Defendants' proposed construction.

b. Proper Claim Construction of "Minimum Power Threshold"

Claim Term	Defendants' Construction	Plaintiffs' Construction
1	a minimum amount of power a load must use during an associated time interval	Plain and ordinary meaning

As with "power option agreement," Plaintiffs purport to apply the "plain and ordinary" meaning of the term "minimum power threshold" but ignore the guidance the specification provides for the meaning of this term. Based on the meaning established by the intrinsic evidence, the Court should construe "minimum power threshold" to mean "a minimum amount of power a load must use during an associated time interval."

The claim construction analysis "must begin and remain centered on the language of the claims themselves, for it is that language the patentee chose to use to 'particularly point[] out and distinctly claim[] the subject matter which the patentee regards as his invention." *Interactive Gift Express, Inc. v. Compuserve, Inc.*, 256 F.3d 1323, 1331 (Fed. Cir. 2001) (quoting 35 U.S.C. § 112). Here, the claim language itself supports Defendants' proposed construction. Exemplary claim 1 is instructive:

- 1. A system comprising:
 - a set of computing systems, wherein the set of computing systems is configured to perform computational operations using power from a power grid;
 - a control system configured to:

monitor a set of conditions;

receive power option data based, at least in part, on a power option agreement, wherein the power option data specify: (i) a set of minimum power thresholds, and (ii) a set of time intervals, wherein each minimum power threshold in the set of minimum power thresholds is associated with a time interval in the set of time intervals;

responsive to receiving the power option data, determine a performance strategy for the set of computing systems based on a combination of at least a portion of the power option data and at least one condition in the set of conditions, wherein the performance strategy comprises a power consumption target for the set of computing systems for each time interval in the set of time intervals, wherein each power consumption target is equal to or greater than the minimum power threshold associated with each time interval; and provide instructions to the set of computing systems to perform one or more computational operations based on the performance strategy.

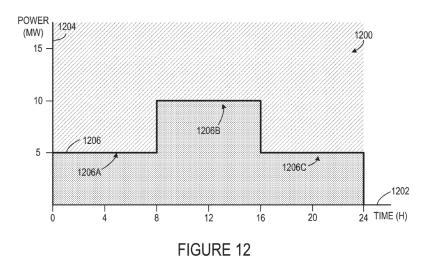
Ex. 17 at 59:2-28. Thus, consistent with Defendants' proposed construction, the claim language generally sets forth a system where a load—pursuant to a power option agreement and data received under that agreement—determines a performance strategy for a set of computing systems in order to ensure that they use at least a minimum amount of power during specified time intervals (i.e., minimum power thresholds).

The specification, which "is always highly relevant to the claim construction analysis" and "is the single best guide to the meaning of a disputed term," also supports Defendants' construction. *Phillips*, 415 F.3d at 1315. For example, the specification explains that in order to provide a power entity with the option contemplated by a power option agreement—i.e., "the right, but not obligation, to reduce the amount of power delivered (e.g., grid power) to the load"—"the load needs to be using at least the amount of power subject to the option (e.g., a minimum power threshold)." Ex. 17 at 43:50-60. The '433 patent further explains that:

"To illustrate an example, a power option agreement may specify that a load (e.g., the datacenters 1102-1106) is required to use at least 10 MW or more at all times during the next 12 hours. Thus, the **minimum power threshold** according to the power option agreement is 10 MW and this minimum threshold extends across the time interval for the next 12 hours. In order to comply with the agreement, the load must subsequently operate using 10 MW or more power at all times during the next 12 hours." Ex. 17 at 44:17-25; *see also id.* at 44:26-35.

The '433 patent also provides an example in Figure 12, which depicts a graph line 1206 indicating "the set of time intervals associated with minimum power thresholds" where "time 1202

increases along the X-axis and minimum power thresholds 1204 increase along the Y-axis of the graph 1200." Ex. 17 at 50:56-59; 50:66-51:5; see also 50:53-56; 51:8-52:11.



In relation to Figure 12, the '433 patent further explains that:

"To further illustrate, an initial minimum power threshold 1206A is shown associated with the time interval starting at hour 0 and extending to hour 8. In particular, the minimum power threshold 1206A is set at 5 MW during this time interval. Thus based on the power option data shown in FIG. 12, the loads must be able to operate at a target power consumption level that is equal to or greater than the 5 MW minimum power threshold 1206A at all times during the time interval extending from hour 0 to hour 8, in order to be able to satisfy the power option if it is exercised for that time interval. Similarly, the power entity could reduce the power consumed by loads by any amount up to 5 MW at any point during the time interval from hour 0 to hour 8 in accordance with the power option agreement. For instance, the power entity could exercise its option at any point during this time interval to reduce the power consumed by the loads by 3 MW as a way to load balance the power grid."

Ex. 17 at 51:24-40; see also id. at 51:8-23; 51:41-52:11.

Plaintiffs and their expert, Dr. McClellan purport to apply the "plain and ordinary meaning of "minimum power threshold," but Dr. McClellan made clear at his deposition that his interpretation of "minimum power threshold" is not based on how the term is used in the '433 patent. Ex. 3 at ¶ 49. In particular, Dr. McClellan testified that:

- Q. What specifically is a minimum power threshold?
- A. That's the amount of power that you're contracted to consume.

Q. And by consume you don't mean use, correct?

A. I may not use it, but I'm going to consume it. I'm purchasing it. Whether I use it or whether I sell it, that's a completely separate issue. I'm agreeing to purchase it at that threshold.

Ex. 5 at 82:18-85:1. As a further example of his interpretation of the term, Dr. McClellan also testified that "[w]ell, if I purchase one kilowatt at \$1, I'm going to pay that \$1 whether I use that kilowatt or not," thus "[t]he power threshold is the kilowatt." Ex. 5 at 87:16-88:17. Dr. McClellan, however, also testified that he was not sure whether or not there was actually a requirement to use the amount of power set by a minimum power threshold. Rather than being a requirement established by the '433 patent, however, he testified that "[f]undamentally it's a business question." Ex. 5 at 90:14-91:21; *see also id.* at 87:2-15. Dr. McClellan also asserted that "this is a question for McCamant"—another of Plaintiffs' experts, Mr. Frank McCamant. Ex. 5 at 91:22-92:24; *see also id.* at 155:13-156:11. But Mr. McCamant did not offer any opinions regarding claim construction or the meaning of "minimum power threshold." *See generally* Ex. 1; Ex. 2 (McCamant Reply Report). As such, Plaintiffs' and their experts' interpretation of this claim term is somewhat unclear, but nonetheless is not based on the intrinsic record.

It is thus apparent that Plaintiffs at the very least to take an ambiguous position on whether a "minimum power threshold" sets an amount of power a load must actually use. Accordingly, and based on the meaning established by the intrinsic evidence, the Court should resolve the parties' dispute and construe "minimum power threshold" to mean "a minimum amount of power a load must use during an associated time interval."

c. None of the documents Storms sent to Lancium disclose the claimed inventions of the '433 patent.

To prevail on their claim that Storms is the sole true inventor of the '433 patent, Plaintiffs

must prove by clear and convincing evidence that Storms "is the sole inventor of each of the claims of the patent" and that "any contribution by defendant[s] to the conception of each and every claim was insignificant." See, e.g., Imprenta Servs., Inc. v. Karll, No. 220CV06177GWPVCX, 2021 WL 4555333, at *6 (C.D. Cal. July 13, 2021). Moreover, it is axiomatic that because Plaintiffs seek to have Storms substituted as the sole inventor of a patent filed by Defendants, they must also prove—again by clear and convincing evidence—that they communicated the inventions of the '433 patent to Defendants. See Weaver v. Houchin, 467 Fed. App'x 878, 880 (Fed. Cir. 2012); Wagner v. Ashline, No. 2021-1715, 2021 WL 5353889, at *4 (Fed. Cir. Nov. 17, 2021).

As a matter of law, however, Plaintiffs cannot meet this "heavy burden" because there is no evidence that Storms conceived of the properly construed inventions of the '433 patent, much less that he communicated these inventions to Defendants.¹⁰

The only written communications between Storms and any of Defendants were a handful of text messages exchanged from May 3-9, 2019 and a single email that Storms sent to McNamara on May 9, 2019. SOF ¶14; Ex. 20; *see also* D.I. 103 at ¶¶ 34-36. Plaintiffs cannot establish that any of these written communications demonstrate, by clear and convincing evidence, possession of the inventions of the '433 patent by Storms or conveyance of the claimed inventions to Defendants. For example, because Plaintiffs rely on a misinterpretation of "power option agreement" and "minimum power threshold" they cannot establish that Storms' communications show possession or communication of a system that can:

• "receive power option data based, at least in part, on a power option agreement, wherein the power option data specify: (i) a set of minimum power thresholds, and (ii) a set of time intervals, wherein each minimum power threshold in the set of

¹⁰ Likewise, Plaintiffs cannot prove that McNamara and Cline—the '433 patent's named inventors—did not provide a significant contribution to conception of any claim. Indeed, Plaintiffs' expert, Dr. McClellan does not offer any opinions or analysis that McNamara and Cline did not provide a significant contribution to any of the claims. *See, e.g.*, Ex. 3 at ¶ 14 (summary of opinions).

minimum power thresholds is associated with a time interval in the set of time intervals"; or

"responsive to receiving the power option data, determine a performance strategy for the set of computing systems based on a combination of at least a portion of the power option data and at least one condition in the set of conditions, wherein the performance strategy comprises a power consumption target for the set of computing systems for each time interval in the set of time intervals, wherein each power consumption target is equal to or greater than the minimum power threshold associated with each time interval"

as required by independent claim 1 of the '433 patent—or the similar requirements of the other two independent claims (claims 17 and 20). Indeed, Plaintiffs' expert, Dr. McClellan provides no explanation how of the written communications and documents Storms sent to McNamara disclose or convey the properly construed requirements of the claims. *See generally* Ex. 3 (McClellan Opening Report); Ex. 4 (McClellan Reply Report).

Fundamentally, the alleged "invention" that Storms purportedly conceived of and communicated to Defendants does not pertain to the claimed inventions of the '433 patent. Rather, as Dr. McClellan asserts, it pertains to "a system that utilizes a set of Bitcoin miners under the direction of a control system" that based on certain information "periodically determinine[s] mining profitability" and then "may either instruct some or all of the miners to mine Bitcoin or sell power to the grid (power arbitrage)." Ex. 3 at ¶ 9. Dr. McClellan thus relies on his misinterpretation of "power option agreement" and "minimum power threshold" to mistakenly conclude that Storms' written communications with McNamara demonstrate the above claim requirements because these communications show a system that "calculated profitability at distinct time intervals, each with an associated power threshold, such as comparing mining profitability based on, inter alia, current power usage and energy price conditions on the one hand with profitability based, inter alia, on expected future power usage and energy price conditions" and then "determin[es] performance strategies ... to determine, for example, whether to mine Bitcoin"

based on whether that is the most profitable use of purchased power. Ex. 3 at ¶¶ 188-189; *see also id.* at ¶¶ 62, 66. But the claim elements—and indeed the claimed inventions—have no requirements relating to profitability calculations.

Furthermore, the claims set forth requirements that a load (e.g., a Bitcoin mining operation) must use the amount of power set by the minimum power thresholds regardless of profitability, which is the opposite of the system contemplated by Storms' communications. Indeed, when asked whether the system described in Storms' communications "contemplate[s] a performance strategy where X amount of power must be utilized by the miners, they must mine and use X amount of power, regardless of whether or not it's profitable for the miners to do so?", Dr. McClellan testified that "[t]he simulation kind of ignores" what he called a "nonsensical case ... because it's focusing on ways to make positive dollars" Ex. 5 at 238:7-23.

Thus, for the reasons above, Plaintiffs cannot establish that any written communications between Storms and Defendants demonstrate conception of the inventions of the '433 patent by Storms or communication of the inventions to Defendants.

d. There is no corroboration that Storms verbally communicated the claimed inventions to Defendants.

Plaintiffs also cannot prove by clear and convincing evidence that Storms orally communicated the inventions of the '433 patent, as properly construed, to Defendants, including McNamara, because they have no evidence to corroborate any such assertion. *See Ethicon*, 135 F.3d at 1461.

As an initial matter, even Plaintiffs' expert, Dr. McClellan testified that "I think it's unlikely that an enormous amount of pertinent information was communicated at the dinner" where Storms and McNamara spoke in person because for "dinners like that there's not normally an enormous amount of information that's passed back and forth." Ex. 5 at 186:24-187:20.

Moreover, as set forth above, because none of the written communications that Storms had with Defendants disclose the claimed inventions of the '433 patent, these communications cannot corroborate that Storms communicated the inventions of the '433 patent to Defendants.

Wagner v. Ashline is instructive on this point. No. 2021-1715, 2021 WL 5353889 (Fed. Cir. Nov. 17, 2021). In Wagner, the Federal Circuit affirmed summary judgment of no inventorship by a purported inventor, concluding that purported corroborating evidence of a discussion between the purported inventor and the named inventor "corroborate[d] only the undisputed fact that [the named inventor] and [the purported inventor] met and that they discussed" other topics, but "[i]t does not corroborate [the purported inventor]'s testimony in support of her claim of joint inventorship." 2021 WL 5353889, at *5. In other words, the Federal Circuit concluded that in order for an unnamed inventor's testimony to meet the clear and convincing evidence of proving an inventorship claim, there must be evidence that corroborates what was actually communicated between the purported inventor and the named inventor(s).

Here, as a matter of law, Plaintiffs cannot prove by clear and convincing evidence that Storms orally communicated the claimed inventions of the '433 patent to Defendants because they have no corroborating evidence of what was actually communicated. Plaintiffs have not deposed or offered testimony from any other attendees of the dinner where Storms and McNamara spoke, and McNamara certainly does not corroborate Storms' claim. In addition, as set forth above, none of the written communications between Storms and McNamara corroborate that Storms possessed or communicated the inventions of the '433 patent as properly construed.

In addition, evidence in the case demonstrates that Storms did not conceive of the inventions of the '433 patent, much less communicate these inventions to Defendants. Indeed, two days after meeting McNamara, Storms texted another person he was working with, Ben Hakes,

and admitted "[t]he guys at Lancium *are <u>doing</u>* what *we are <u>trying</u> to do* exactly *See* Ex. 16 at BB10004001.

Thus, for the reasons above, Storms' oral communications with Defendants do not establish conception or communication of the claimed inventions of the '433 patent, because as a matter of law, Storms has no clear and convincing evidence corroborating any such communication. Likewise, Plaintiffs cannot establish that the written communications between Storms and Defendants establish conception or communication of the claimed inventions. Accordingly, summary judgment should be granted on Plaintiffs' Count I that Storms is not the sole inventor of the '433 patent.

B. Plaintiffs' Joint Inventorship Claim Fails As A Matter Of Law Because Plaintiffs Cannot Meet Their Burden Of Proving Collaboration.

1. Applicable Legal Principles

The law regarding claims for correction of inventorship under 35 U.S.C. § 256 is generally the same whether the claim is for complete substitution of inventors or addition of unnamed joint inventors. However, for joint inventorship claims, the alleged contribution of the purported coinventor is compared with the subject matter of the properly construed claims to determine whether the alleged inventor contributed in some "significant manner" to the conception of the claimed invention. *Gemstar*, 383 F.3d at 1381. To meet this standard, the would-be co-inventor must demonstrate that she/he made a contribution that "is not insignificant in quality, when that contribution is measured against the dimension of the full invention," as opposed to merely explaining well-known concepts and/or the state of the art to the real inventors. *Acromed Corp. v. Sofamor Danek Group, Inc.*, 253 F.3d 1371, 1379 (Fed. Cir. 2001) (reversing a jury verdict of invalidity for improper inventorship due to insufficiency of evidence).

A would-be co-inventor must also demonstrate some element of joint behavior, such as

collaboration or working under common direction. *See, e.g., Kimberly-Clark Corp. v. Procter & Gamble Distributing Co., Inc.*, 973 F.3d 911, 917 (Fed. Cir. 1992). Stated differently, "a joint invention is 'a product of a collaboration between two or more persons working together to solve the problem addressed." *Rubin v. Gen. Hosp. Corp.*, No. 09-10040-DJC, 2011 WL 1625024, at *6 (D. Mass. Apr. 28, 2011) (quoting *Kimberly-Clark*, 973 F.2d at 917).

2. Plaintiffs Cannot Prove By Clear And Convincing Evidence That Storms Collaborated With Messrs. McNamara and Cline On The Claimed Inventions

Plaintiffs' joint inventorship claim fails because the claim is not supported by clear and convincing evidence that there was "joint behavior" or "collaboration" between putative inventor Storms and named inventors McNamara and Cline as to the '433 patent's claimed inventions. The only communications—and thus potential collaboration—between Storms and any of Defendants were: (1) a conversation during a group dinner on May 3, 2019; (2) a series of text messages following the dinner sent from May 3 to May 9, 2019; and (3) an email that Storms sent McNamara on May 9, 2019. See SOF ¶14; D.I. 103 at ¶¶ 32-36; D.I. 41 at ¶¶ 38, 40-41, 43, 46-50; D.I. 28 at ¶¶ 38, 40-41, 43, 46-50, Exs. C-D. But these communications, as a matter of law, cannot establish the required collaboration.

University of Utah v. Max-Planck-Gesellschaft Zur Foerderung Der Wissenschaften E.V., is instructive. 851 F.3d 1317 (Fed. Cir. 2017). In University of Utah, the putative inventor, Dr. Bass, wrote a "mini-review" of research of others relating to RNA interference ("RNAi") and included her "own hypotheses about enzymatic processes that may be responsible for the RNAi activity reported in" prior work by another, Dr. Tuschl. Id. at 1320. "It [was] undisputed that Dr. Tuschl read Dr. Bass' mini-review, recognized her hypothesis ... and tested that hypothesis." Id. In addition, "Dr. Bass and Dr. Tuschl met for dinner during a conference and discussed Dr. Tuschl's research in relation to Dr. Bass' hypothesis." Id. at 1321. And based on Dr. Tuschl's test

results that confirmed Dr. Bass' hypothesis, Dr. Tuschl and his colleagues filed and received a patent on their discovery. *Id.* at 1320. Based on these facts, the plaintiff filed suit seeking to add Dr. Bass as a joint inventor on the patent-at-issue, but the district court granted summary judgment against this claim reasoning that "there was no evidence to support a finding of collaboration between Dr. Bass and the [named] inventors." *Id.* at 1321. This was because the court found that Dr. Bass' mini-review paper "was already in the public domain by the time the [named] inventors relied on it" so it "could not, on its own, support a finding of collaboration," and the single discussion between Dr. Bass and Dr. Tuschl "at an academic conference could not constitute the collaboration needed to establish joint inventorship." *Id.* The Federal Circuit also did not dispute the district court's reasoning. *Id.*

The basis of Plaintiffs' joint inventorship claim here is analogous to *University of Utah* and also warrants summary judgment based on the lack of collaboration. As an initial matter, just as the dinner conversation in *University of Utah* did not demonstrate collaboration, neither does Storms and McNamara's dinner conversation here. Indeed, although the dinner conversation in *University of Utah* occurred while the named inventors' work on the patent-at-issue was ongoing, the dinner conversation between Storms and McNamara was the *first* communication they had. Moreover, Plaintiffs admit that Storms' conversation with McNamara occurred in front of other of the approximately eight attendees at the May 3, 2019 dinner, which included competitors in the Bitcoin mining field. SOF ¶11; D.I. 41 at ¶¶ 38, 40-41, 43; D.I. 28 at ¶¶ 38, 40-41, 43. Thus, this dinner provides even less support for collaboration than the dinner in *University of Utah*.

Turning to the handful of text messages between Storms and McNamara, these messages plainly do not disclose any elements of the '433 patent claims, and thus do not show collaboration on the inventions of the '433 patent. *See* D.I. 41 at ¶¶ 46-48; D.I. 28 at ¶¶ 46-48, Ex. C. Moreover,

Plaintiffs do not contend otherwise. Indeed, Plaintiffs' expert Dr. McClellan does not point to any of these text messages in support of his opinions that Storms is an unnamed inventor of the '433 patent. *See generally* Ex. 3 at Sections VII-VIII.

In addition, the email that Storms sent to McNamara cannot establish collaboration for several reasons. First, one of the five attachments to the email included a drawing titled "BearBox Automatic Miner Management System Version 1.0" that Storms also posted on BearBox's Twitter account on June 24, 2019—more than three months before the provisional application leading to the '433 patent was filed on October 28, 2019. SOF ¶1, 3, 19-20; *Compare* Ex. 10 at BB00000092, *with* Ex. 11 at BB00000718. Storms testified that this Twitter account, which had its first tweet on November 1, 2018, was "public for maybe two years or so." *See* Ex. 7 at 247:8-248:21; Ex. 11 at BB00000718. Thus, this drawing was publicly available before the filing of the '433 patent. *See* SOF ¶19-20. Plaintiffs, including through their expert Dr. McClellan, assert that this publicly available drawing discloses numerous claim elements of the '433 patent. *See*, *e.g.*, Ex. 3 at ¶ 185, 186, 188, 190, 192, 196, 200, 230, 237, 241, 244, 248, 250, 262. But just as in *University of Utah*, this publicly available document cannot support a finding of collaboration. *University of Utah*, 851 F.3d at 1321.

Second, Storms admitted that three of the other five email attachments were publicly available product specification sheets. Ex. 7 at 213:5-214:5; Ex. 10; *see also* SOF ¶18. Thus, these documents also cannot support a finding of collaboration because they only disclose information about the state of the art in the field. See Acromed, 253 F.3d at 1379; University of Utah, 851 F.3d at 1321.

¹¹ Plaintiffs also cannot establish that these documents disclose a significant contribution to the claimed inventions.

Third, although Storms testified that the only allegedly confidential information in the email was in the fifth attachment, an Excel spreadsheet, this document also cannot support a finding of collaboration. As an initial matter, this document contains much of the same information as the publicly available drawing, and Dr. McClellan cites the documents as both disclosing many of the same claim elements. See, e.g., Ex. 3 at ¶ 190, 196, 200, 230, 237, 241, 244, 248, 250. Moreover, Plaintiffs' only basis for asserting that the Excel file is confidential is a boilerplate "confidentiality notice" at the bottom of Storms' cover email—the Excel file itself contains no confidentiality marking—stating that "[t]his email communication may contain private, confidential, or legally privileged information intended for the sole use of the designated and/or duly authorized recipient(s)." SOF ¶16; Ex. 10 at BB00000090. Storms did not have a confidentiality or nondisclosure agreement with McNamara or any of Defendants. And Plaintiffs admit that "Storms last communicated with McNamara on May 9, 2019 via e-mail, and after sending that message, Storms did not hear from McNamara again." SOF ¶13; D.I. 103 at ¶ 36. Thus, Storms did not, and could not, have asked McNamara to treat the Excel file as confidential after emailing it to him.

Storms also sent the information he claims to be confidential to others. Specifically, Storms emailed similar spreadsheets to an individual named Todd Garland. Ex. 7 at 186:17-189:12, 214:6-12 Ex. 9. These spreadsheets include the same column headers and categories of information as the spreadsheet sent to Mr. McNamara only from different times. *Compare* Ex. 9 at BB10000912, *with* Ex. 10 at BB00000097. Storms admitted that he did not have a nondisclosure agreement with Garland or Garland's company, and Garland did not give his word to keep it confidential. Ex. 7 at 71:18-23; 188:1-189:2. Moreover, as with his email to McNamara, Plaintiffs' only basis for asserting that this email was confidential is the boilerplate confidentiality notice that Storms

included on all of his emails. Ex. 7 at 72:4-9; 188:18-21.

But courts have found that "[a] boilerplate confidentiality statement" in an email "does not constitute a reasonable measure to keep secrecy—especially when [it] use[s] the phrase 'may contain information that is ... confidential." *Acad. of Allergy & Asthma in Primary Care v. Quest Diagnostics, Inc*, No. 5:17-CV-1295-RCL, 2022 WL 980791, at *10 (W.D. Tex. Mar. 31, 2022) (dismissing trade secret claim); *Sortiumusa LLC v. Hunger*, No. 3:11-cv-1656, 2013 WL 11730655, at *11-12 (N.D. Tex. Mar. 31, 2013) (dismissing trade secret claims and finding that a "confidentiality statement" at the bottom of an email stating it "*may* contain information that is confidential or otherwise protected from disclosure ... bears no relevance, as a matter of law, as to whether [plaintiff] took appropriate steps to safeguard its alleged trade secrets" (emphasis in original)). And under federal patent law, an idea is considered publicly available if "given to a member of the public without restriction." *See Pronova Biopharma Norge AS v. Teva Pharms. USA, Inc.*, 549 F. App'x 934, 940 (Fed. Cir. 2013). Thus, Storms' Excel file was also publicly disclosed and cannot support a finding of collaboration.

Rubin v. General Hosp. Corp., is also instructive. 523 Fed. Appx. 719 (Fed. Cir. 2013). In Rubin, a group of researchers (the Rubin group), authored a paper identifying two specific gene mutations that caused the disease Familial Dysautonomia (FD), and contrary to their request the abstract of this paper was sent to another group of researchers (the Gusella group), who were also working on identifying the cause of FD. Id. at 721. When the Gusella group filed a patent claiming a diagnostic method for FD using these gene mutations, the Rubin group sought to be added as joint inventors. Id. at 722. The Federal Circuit, however, affirmed summary judgment of no joint inventorship, concluding that "the nature of this communication of information, do[es] not support joint invention." Id. at 723. Just as in Rubin, Storms' transmission of documents to McNamara,

with no further discussion or communication, cannot support a finding of collaboration or support a claim of joint inventorship.

Thus, summary judgment should be granted in Defendants' favor on Plaintiffs' joint inventorship claims (Count II).

3. Plaintiffs Cannot Prove By Clear And Convincing Evidence That Storms Made A Significant Contribution To The '433 Patent.

To be named as a joint inventor of a patent, one must "contribute in some significant manner to the conception of the invention." *Gemstar*, 383 F.3d at 1381. And "[t]he general rule is that a party alleging misjoinder or non-joinder of inventors must meet the heavy burden of proving its case by clear and convincing evidence." *Eli Lilly*, 376 F.3d at 1358. Here, as set forth above in Section IV.A.2, Plaintiffs premise their inventorship claims on misinterpretations and misconstructions of two key claim terms of the '433 patent. Indeed, Plaintiffs' experts offer no analysis or opinions supporting any significant contribution by Storms to the claims of the '433 patent as properly construed. Thus, Plaintiffs have not met and cannot meet their "heavy burden" of proving a significant contribution to the claims of the '433 patent. Accordingly, summary judgment should be granted to Defendants on Plaintiffs' joint inventorship claim (Count II).

C. Plaintiffs' Conversion Claim Is Prescribed By The One Year Statute Of Limitations.

Plaintiffs' conversion claim (Count V) is premised on Defendants' alleged conversion of a power arbitrage method disclosed in the documents that Storms emailed to McNamara. But Plaintiffs' own allegations in this case demonstrate that they knew or should have known of Defendants' alleged use of their purported power arbitrage method more than one year before bringing this claim. Therefore, summary judgment should be granted for Defendants on Plaintiffs' conversion claim because this claim is prescribed by Louisiana's applicable one-year statute of limitations.

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It is well-established that under Louisiana law, "[a] conversion action sounds in tort and is subject to a one-year liberative prescriptive period" under Louisiana Civil Code Article 3492. 12 Bihm v. Deca Systems, Inc., 226 So.3d 466, 480 (La. 2017); see also Jefferson v. Crowell, 956 So.2d 746, 749 (La. App. 2d Cir. 2007). In addition, "[a] prescriptive period will begin to run even if the injured party does not have actual knowledge of facts that would entitle him to bring a suit as long as there is constructive knowledge of same. Prescription commences upon whatever notice is enough to excite attention and put the party on guard or call for inquiry." Bihm, 226 So.2d at 480 (internal citations omitted). In other words, "[t]he prescriptive period commences on the date the aggrieved party has actual or constructive knowledge of the facts that would entitle him to bring suit." Jefferson, 956 So.2d at 749.

Here, Plaintiffs' conversion claim is based on Defendants' alleged use of Plaintiffs' socalled "power arbitrage" method, which Dr. McClellan explains is "a system that utilizes a set of Bitcoin miners under the direction of a control system" that will "periodically determine mining profitability" and "may either instruct some or all of the miners to mine Bitcoin or sell power back to the grid (power arbitrage)."¹³ Ex. 3 at ¶ 9. This conversion claim was also first pled in Plaintiffs' Second Amended Complaint, which was filed on February 16, 2022¹⁴ after the Court dismissed

¹² The Court has previously found that Louisiana law applies to Plaintiffs' conversion claim and that "both sides agree" on this point. See D.I. 143.

¹³ Dr. McClellan's opening report explicitly states that "[i]n my opinion, Lancium is using BearBox's power arbitrage trade secrets," and his reply report—issued after the Court struck Plaintiffs' trade secret misappropriation claims—clarifies that "[m]y opinions, in this report and my opening report, are not dependent on whether the cause of action in this lawsuit is trade secret misappropriation, which I understand is no longer at issue in this case, or conversion." See Ex. 3 at ¶ 302; Ex. 4 at ¶ 215

¹⁴ See D.I. 103-3 at 20-22 (providing a comparison of Plaintiffs' newly pled conversion claim against the previously pled conversion claim).

Plaintiffs' original conversion claim as preempted by federal patent law. ¹⁵ Plaintiffs further admit in the Second Amended Complaint that they "became aware of Defendants' wrongful use of BearBox's technology on or about August 17, 2020, when they learned about the Layer1 Lawsuit" (i.e., *Lancium LLC v. Layer1 Technologies, Inc.*, Case No. 6:20-cv-739 (W.D. Texas) "through a press release dated August 14, 2020." D.I. 103 at ¶ 54; *see also id.* ¶ 52. And the publicly available complaint in the Layer1 Lawsuit explains that Lancium's technology allows "computationally intensive activities requiring significant amounts of electricity such as Bitcoin mining" to "ceas[e] (or reduc[e]) Bitcoin mining operations" during "times of high-priced electricity" and thereby "receive[] the difference in value of the real time electricity versus the data center's pre-existing power purchase agreement price." *See* Ex. 19 (Layer1 Lawsuit complaint) at ¶ 10; *see also* ¶¶ 8-9, 11. In other words, the complaint in the Layer1 Lawsuit explains that Lancium's technology can do what Plaintiffs now allege is their purported power arbitrage method, by ceasing Bitcoin mining operations and selling the power that would otherwise be used to mine Bitcoin, when doing so is more profitable.

Thus, through their knowledge of the Layer1 Lawsuit and their knowledge of the information Storms provided to McNamara, by August 17, 2020 Plaintiffs had actual knowledge, or at the very least constructive knowledge, of facts that would have enabled them to bring the present claim. And because Plaintiffs had this knowledge well over a year before they pled their conversion claim on February 16, 2022, this claim is prescribed by the statute of limitations.

Moreover, Plaintiffs' currently pled conversion claim does not "relate back" to the filing of the original complaint in this case because it does not "arise[] out of the conduct, transaction, or occurrence set forth or attempted to be set forth in the original pleading." *See Hammons v. City*

¹⁵ See D.I. 92 at 12 (recommending dismissal); D.I. 97 (adopting recommendation of D.I. 92).

of Tallulah, 708 So.2d 502, 504 (La.App. 2d Cir. 1998) (finding conversion claim did not relate back to original complaint). As pled, Plaintiffs' current conversion claim is based upon Defendants' allegedly using "Bearbox's technology" to "modify their Smart ResponseTM software." D.I. 103 at ¶ 87. This is entirely different than the claim pled in their original Complaint, which did not assert any claims based on Lancium's Smart ResponseTM software or the alleged use of Plaintiffs' power arbitrage method. Rather, all of the claims of the original Complaint (and the First Amended Complaint) were based on Lancium's alleged patenting of Plaintiffs' invention. See generally D.I. 1; D.I. 19. Indeed, at the hearing on Defendants' motion to strike the trade secret claims in the Second Amended Complaint, Magistrate Judge Burke explained that:

"Like a key issue here is defendants say that plaintiffs were basically talking about the types of arbitrage methods that are referred to in the second amended complaint back in the original complaint. And the plaintiff is saying, No, we weren't. No, no, we were talking about something else. ... But I'm still struggling to understand what it was you were talking about in the first complaint."

In response to this, Plaintiffs' counsel made clear that "[f]irst of all, it had nothing to do with energy value arbitrage methods" Ex. 22 at 22:16-23:21. And when the Court followed up, Plaintiffs' counsel confirmed "it didn't have anything to do with arbitrage methods at all." Ex. 22 at 24:1-3. As such, Plaintiffs' conversion claim does not arise out of the same conduct pled in the original Complaint, and thus does not "relate back" to the original Complaint.

Accordingly, summary judgment should be granted that Plaintiffs' conversion claim (Count V) is prescribed by the applicable one-year statute of limitations.

D. Plaintiffs' Conversion Claim Is Preempted By Federal Patent Law

Plaintiffs' conversion claim is based upon Defendants' use of information in documents that, as a matter of law, was not confidential. But because Plaintiffs' claim seeks to restrict the use of non-confidential information, it conflicts with federal patent law. Accordingly, the Court should grant summary judgment that Plaintiffs' conversion claim is preempted by federal patent law.

It is well-established that "[f]ederal law preempts state law that offers patent-like protection to discoveries unprotected under federal patent law." Ultra-Precision Mfg., Ltd v. Ford Motor Co., 411 F.3d 1369, 1377-78 (Fed. Cir. 2005) (noting that "Federal Circuit law governs whether federal patent law preempts a state law claim") (internal quotations and citation omitted). The Supreme Court has also explained that "[a] state law that substantially interferes with the enjoyment of an unpatented utilitarian or design conception which has been freely disclosed by its author to the public at large impermissibly contravenes the ultimate goal of public disclosure and use which is the centerpiece of federal patent policy." Bonito Boats, Inc. v. Thunder Craft Boats, Inc., 489 U.S. 141, 156-57 (1989). Thus, "[a]bsent secrecy, state law cannot create a collateral set of rights available as an adjunct or expansion to patent rights." *Ultra-Precision*, 411 F.3d at 1379 (quoting Waner v. Ford Motor Co., 331 F.3d 851, 856 (Fed. Cir. 2003)). Moreover, under federal patent law, an idea is considered publicly available if "given to a member of the public without restriction." See Pronova Biopharma Norge AS v. Teva Pharms. USA, Inc., 549 F. App'x 934, 940 (Fed. Cir. 2013); see also Bonito Boats, 489 U.S. at 149 (under 35 U.S.C. § 102, "[o]nce an inventor has decided to lift the veil of secrecy from his work, he must choose the protection of a federal patent or the dedication of his idea to the public at large").

Plaintiffs' Second Amended Complaint alleges that Defendants are liable for conversion because:

"[w]ithout Plaintiffs' consent, Defendants intentionally and willfully assumed dominion and control over BearBox's technology, including system designs, documents, data, and know-how, and improperly used it to modify their Smart ResponseTM software, and corresponding system designs, to function as reflected in BearBox's system designs, documents, data, and know-how"

D.I. 103 at ¶ 87. Under Louisiana law, however, a claim for conversion applies only to "goods" or "chattel." *See Quealy v. Paine, Webber, Jackson & Curtis, Inc.*, 475 So.2d 756, 760 (La. 1985);

Dual Drilling Co. v. Mills Equip. Invs., Inc., 721 So. 2d 853, 857 (La. 1998); Dorsey v. Money Mack Music, Inc., 304 F. Supp. 2d 858, 866 (E.D. La. 2003) ("[T]he torts of conversion and trespass relate to interference with tangible rather than intangible property."); Brand Coupon Network, LLC v. Catalina Mktg. Corp., No. 11-00556, 2014 WL 6674034, at *6 (M.D. La. Nov. 24, 2014) ("[C]onversion requires unlawful interference with chattel.") (emphasis in original). And chattel "is deemed 'corporeal movable' property." BASF Agrochemical Prods. v. Unkel, No. 05-1478, 2006 WL 3533133, at *7 (W.D. La. Dec. 7, 2006). Thus, Plaintiffs' conversion claim is premised on the "conversion" of information contained in electronic files that Storms emailed to McNamara in a single email sent on May 9, 2019. Ex. 7 at 113:24-114:6; 212:7-10; see also D.I. 103 at ¶ 36.

As set forth above in Section IV.B.2, although the email that Storms sent to McNamara had several attachments, Plaintiffs only contend that one of the attachments, an Excel file, contained confidential information. SOF ¶17. And as also set forth above in Section IV.B.2, the only basis for Plaintiffs' assertion that this Excel file is confidential—the "confidentiality notice" at the bottom of the cover email, which states only that "that "[t]his email communication *may* contain private, confidential . . . information" (SOF ¶16; Ex. 10 at BB00000090)—does not, as a matter of law, make it confidential. *See, e.g., Acad. of Allergy & Asthma*, 2022 WL 980791, at *10; *Sortiumusa*, 2013 WL 11730655, at *11-12 Thus, Plaintiffs cannot establish that the allegedly converted information was confidential.

The Federal Circuit has also repeatedly found state law claims based on the use of non-

¹⁶ To the extent Plaintiffs' conversion claim is premised on Defendants' alleged conversion of intangible "system designs, ... data, and know-how" that are not contained in a physical, tangible property, the Court should grant summary judgment in Defendants' favor because the claim does not satisfy the elements of conversion and fails as a matter of law. *See, e.g., Quealy*, 475 So.2d at 760; *Dorsey* 304 F. Supp. 2d at 866.

confidential information to be preempted. For example, in *Ultra-Precision*, the court held

plaintiff's unjust enrichment claim, which was premised upon the defendant's "using,

manufacturing, and selling vehicles equipped with [Ultra-Precision's] technology" was preempted

because the idea/technology was not kept confidential and was therefore "free for all the world to

enjoy." Id. at 1380-82. Additionally, in Waner the Federal Circuit affirmed dismissal of the

plaintiff's unjust enrichment claim premised upon the use of his non-confidential idea because

such "ideas can only be protected under intellectual property law by the patent system." Waner,

331 F.3d at 856–57.

Therefore, because Plaintiffs' conversion claim is based on the alleged use of information that as a matter of law was not confidential, the Court should grant summary judgment that

Plaintiffs' conversion claim (Count V) is preempted by federal patent law.

V. CONCLUSION

For at least the foregoing reasons, Plaintiff's claims for correction of inventorship (Counts

I and II) and for conversion (Count V) fail as a matter of law. Accordingly, summary judgment

should be granted for Defendants on all three claims.

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Dated: June 15, 2022 BARNES & THORNBURG LLP

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IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC and AUSTIN STORMS,)
Plaintiffs,)
v.) C.A. No. 21-534-MN
LANCIUM LLC, MICHAEL T. MCNAMARA, and RAYMOND E. CLINE, JR.)))
Defendants.)

CERTIFICATE OF SERVICE

I certify that on June 15, 2022, I caused a sealed copy of **Defendants' Opening Brief in**Support of their Motion for Summary Judgment and to Exclude Certain Portions of the

Opinions of Plaintiffs' Technical Expert to be served on the following counsel of record by via

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communications Mr. Storms had with Mr. McNamara. D.I. 28 at ¶ 38; D.I. 41 at ¶ 38; D.I. 103 at ¶¶ 35-36.

- 15. Austin Storms has never had any oral communications with Raymond Cline. Ex. 23 at 10-11.
- 16. The May 9, 2019 email that Austin Storms sent Michael McNamara includes a "Confidentiality Notice" that states "This email communication may contain private, confidential, or legally privileged information intended for the sole use of the designated and/or duly authorized recipient(s)." D.I. 28 at ¶¶ 48-49, Ex. D; D.I. 41 at ¶¶ 48-49. None of the attachments to this email include any confidentiality marking or designation. D.I. 28 at ¶¶ 48-49, Ex. D; D.I. 41 at ¶¶ 48-49.
- 17. The documents produced by Plaintiffs with Bates numbers BB00000090-BB00000097, are the May 9, 2019 email and its attachments that Austin Storms sent to Michael McNamara. Ex. 10
- 18. Plaintiffs Austin Storms and BearBox LLC do not assert that the May 9, 2019 email (BB00000090) or its attachments marked as BB000000091-BB00000096 are confidential. Ex. 7 at 217:13-23.
- 19. The drawing titled "BearBox Automatic Miner Management System Version 1.0" in the document marked as BB00000092 was posted on the BearBox Twitter account on June 24, 2019. Ex. 10 at BB00000092; Ex. 11 at BB000000718.
- 20. The BearBox Twitter account was publicly viewable on June 24, 2019. Ex. 7 at 247:8-248:21.

IV. BEARBOX

21. BearBox only built one BearBox container, which it sold for no profit. Ex. 7 at 45:18-23; 48:6-7.

Basic market operations

As shown in Figure 5, ERCOT Market Operations consist of a Day-Ahead Market and an Operating Day or Real Time Market. In the ERCOT market, ERCOT controls the dispatch of Resources via QSEs. The QSE is the only entity that interacts with ERCOT on behalf of Generation Resources and the LSEs for operations and wholesale settlement. These are discussed in more detail in the following sections.

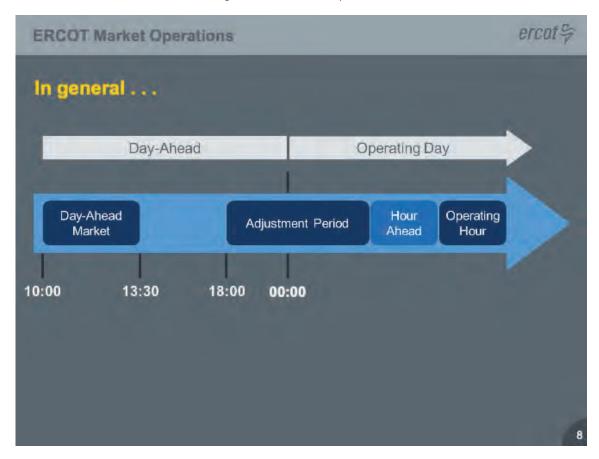


Figure 5 ERCOT Market Operations

Day Ahead Market (DAM)

The Day-Ahead Market (DAM) is a voluntary, financially-binding forward energy market. The DAM matches willing buyers and sellers. It provides a platform to hedge congestion costs in the day-ahead of the Operating Day, and instruments to mitigate the risk of price volatility in Real-Time⁹. Electric transmission networks can become congested when power flows reach the limit on a transmission line. The market resolves and prices such congestion results by incurring costs to alter generation in different locations¹⁰. Purchases in the DAM at a fixed price point can serve

CONFIDENTIAL MATERIAL 13

⁹ https://www.ercot.com/mktinfo/dam

 $^{^{10}}$ 2020 STATE OF THE MARKET REPORT FOR THE ERCOT ELECTRICITY MARKETS, Potomac Economics, Independent Market Monitor for ERCOT, May 2021

> Bearbox v. Lancium. (1:21-cv-00534-MN) U.S. Patent No. 10.608.433

[6] Multiple methods were used to analyze the relevant technologies and items of

development, including document review and source code review.

[7] My source code review involved analyzing the structure and design of the Bearbox

technologies, including identifying architectural and functional elements of the Bearbox product

suite which contain technologies, protocols, and architectures or which exhibit functions,

behaviors, or structures that may infringe on corresponding aspects of the subject patent(s).

[8] Certain source code has been produced as printouts with Bates labeling. I reserve

the right to rely on all such printouts. I understand that certain relevant source code from

Defendants has not been produced. I reserve the right to supplement my opinions in the event that

additional source code is produced. My analysis yielded a number of observations, including

without limitation the following example high-level points. In the following, [n] denotes a claim

number of the subject patent, and "text" denotes some verbiage copied from the referenced claim

language.

[9] I understand that Bearbox and Austin Storms developed a system that utilizes a set

of Bitcoin miners under the direction of a control system that uses (1) various API calls to retrieve

relevant information (such as real-time and day-ahead energy prices), (2) custom PDU logic and

fan control to provide fine grain load control for the miners, and (3) custom logic to process the

information and periodically determine mining profitability. Based on conditions, the system may

either instruct some or all of the miners to mine Bitcoin or sell power to the grid (power arbitrage).

[10] I understand that Lancium also uses and/or sells Bitcoin mining related and power

arbitrage features under a product named Smart ResponseTM. I understand that Lancium's Smart

ResponseTM system acts as a "Controllable Load Resource" data center which alternately mines

Bitcoin or sells energy to the grid based on conditions such as energy prices, Bitcoin pricing and

hashtag rates, and the like.

[11] I am a salaried employee of Texas State University and I am being compensated in

addition to my normal salary for my professional services in this case by either The Barr Group or

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patent coverage under the doctrine of equivalents that would be so broad as to include the same features that were disclaimed to distinguish the invention from the prior art during the prosecution of the patent

V. THE '433 PATENT

[43] United States Patent No. 10,608,433 titled "METHODS AND SYSTEMS FOR ADJUSTING POWER CONSUMPTION BASED ON A FIXED - DURATION POWER OPTION AGREEMENT," was filed on December 4, 2019 and issued on March 31, 2020.

A.1. Overview of the '433 Patent

[44] In general, the '433 Patent discloses example embodiments which enable a computing system to adjust power consumption based on a power option agreement, and using some combinations of power thresholds, time intervals, and monitored conditions. The '433 Patent provides an overview of this aspect of the disclosure:

Examples relate to adjusting load power consumption based on a power option agreement. A computing system may receive power option data that is based on a power option agreement and specify minimum power thresholds associated with time intervals. The computing system may determine a performance strategy for a load (e.g., set of computing systems) based on a combination of the power option data and one or more monitored conditions. The performance strategy may specify a power consumption target for the load for each time interval such that each power consumption target is equal to or greater than the minimum power threshold associated with each time interval. The computing system may provide instructions the set of computing systems to perform one or more computational operations based on the performance strategy.

'433 patent, 1:6-25.

A.2. Level of Ordinary Skill in the Art

[45] I also have been asked to evaluate the level of ordinary skill in the art for the purpose of reading and understanding the '433 patent. In order to make this assessment, I considered the level of education and experience of persons of ordinary skill in the art at the time

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of the filing of the '433 patent. I understand that the filing date of the '433 patent is December 4,

2019.

[46] In my opinion, at the time of the filing of the '433 patent, one of ordinary skill in

the art should have a degree in electrical engineering, computer science, or a similar field and one

to two years of experience in the field of software or an equivalent level of experience.

[47] My qualifications and experience exceed those of a person having ordinary skill in

the art.

A.3. Claim Construction of Certain Terms in the '433 patent

[48] I understand that the determination of whether there is infringement involves a two-

step analysis. The first step in an infringement analysis is to determine or construe the meaning of

the terms of the asserted claims. The second step in an infringement analysis is to apply or compare

each of the asserted claims, as construed, to the accused products or to the use of the accused

products.

[49] I understand that claim terms by default are construed by their plain and ordinary

meanings to a person of ordinary skill in the art. For purposes of my analysis, I have applied the

plain and ordinary meaning of the claim terms. I reserve the right to supplement my report should

Lancium use a different construction, if the Court provides a construction, or the like.

VI. OVERVIEW OF THE LANCIUM'S SMART RESPONSE SYSTEM

[50] I understand that Lancium uses and/or sells Bitcoin mining related and power

arbitrage services under the product name Smart ResponseTM. I understand that Lancium's Smart

ResponseTM system acts as a "Controllable Load Resource" data center which alternately mines

Bitcoin or sells energy to the grid based on conditions such as energy prices, Bitcoin pricing and

hashtag rates, and the like, as explained in more detail below.

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wherein the power option data specify: (i) a set of minimum power thresholds, and (ii) a set of

time intervals, wherein each minimum power threshold in the set of minimum power thresholds is

associated with a time interval in the set of time intervals.

[62] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim

1 at least because the Bearbox systems calculated profitability at distinct time intervals, each with

an associated power threshold, such as comparing mining profitability based on, inter alia, current

power usage and energy price conditions on the one hand with profitability based, inter alia, on

expected future power usage and energy price conditions. For example, the Bearbox system used

multiple time intervals, including the day-ahead hourly intervals and real-time 5-minute intervals,

each of which included an associated minimum power threshold used in periodically determining

performance strategies (i.e. every five minutes). The Bearbox system also included custom PDU

software capable of providing fine grain load control (i.e. the ability to turn on some but not all of

the miners) and also was configured to work modularly with a variety of different miners that had

different power requirements.³

[63] To the extent this feature is found not to be explicitly described in the Bearbox

disclosure, it is my opinion that merely ordinary skill would have been required to modify the

existing system to explicitly incorporate this feature. For example, the involvement of and

communication with a QSE in connection with power option agreements (and the data associated

with power option agreements) was well-known, conventional feature in the art at the time of the

invention.4

[64] I list below certain exemplary modules and files that I considered pertinent to my

analysis and opinions. The noted modules perform functions related to receiving power option data

in which minimum power thresholds at various time intervals are used to determine a performance

³ Ex. 5, Deposition of Austin Storms, dated February 23, 2022, pp. 99-100, 290.

⁴ I discussed these issues and facts with Frank McCamant by telephone on April 1, 2022, and I understand that his report explains these concepts in additional detail. I reserve the right to supplement my report based on any

additional information that may be included in his report.

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[65] Bearbox conceived of and developed technology that includes a system that,

responsive to receiving the power option data, determine a performance strategy for the set of

computing systems based on a combination of at least a portion of the power option data and at

least one condition in the set of conditions, wherein the performance strategy comprises a power

consumption target for the set of computing systems for each time interval in the set of time

intervals, wherein each power consumption target is equal to or greater than the minimum power

threshold associated with each time interval.

[66] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim

1 at least because the Bearbox system calculated profitability at distinct time intervals, each with

an associated power threshold, such as comparing mining profitability based on, inter alia, current

power usage and energy price conditions on the one hand with profitability based, inter alia, on

expected future power usage and energy price condition. Each time interval included an associated

minimum power threshold used in periodically determining performance strategies, such as, inter-

alia, whether to mine Bitcoin based on variables such as Bitcoin price and hashrate. The Bearbox

system also included custom PDU software capable of providing fine grain load control (i.e. the

ability to turn on some but not all of the miners) and also was configured to work modularly with

a variety of different miners that had different power requirements. ⁵

[67] I list below certain exemplary modules and files that I considered pertinent to my

analysis and opinions. The noted modules perform functions related to determining a performance

strategy based on the power option data and monitored conditions. Non-exhaustive examples are

listed below with reference to the current claim language. A detailed analysis of each module is

provided in the Appendix.

1. arb_main_AEC.py - Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to

mining systems based on outcomes.

⁵ Ex.5, Deposition of Austin Storms, pp. 99-100, 290.

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> Bearbox v. Lancium. (1:21-cv-00534-MN) U.S. Patent No. 10,608,433

- 2. cgminer_sqlite_test.py Remotely communicates with miners to retrieve status information
- 3. DA_LMP_import.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 4. DA_LMP_import_AEC.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 5. email_alert.py Provides email alerts for mining machine states (on, off, restart, shutdown, etc)
- 6. EXELON4.py Computes "break even" point for mining Bitcoin in dollars per kilowatt-hour.
- 7. get_current_RT_LMP.py Fetches marketplace data and returns the real-time local market price (LMP)
- 8. miner_amort_breakeven_.py Performs profitability determinations for dynamic power thresholds and manages mining system based on resulting performance strategy.
- 9. LMP_csv_import.py Retrieves the marginal power pricing data from Southwest Power Pool marketplace
- 10. test_profit.py Simulates a mining operation's profitability
- 11. test test test.py Simulates a mining operation's profitability.

Claim 1(e): "provide instructions to the set of computing systems to perform one or more computational operations based on the performance strategy"

- [68] Bearbox conceived of and developed technology that includes a system comprising providing instructions to the set of computing systems to perform one or more computational operations based on the performance strategy.
- [69] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim 1 at least because the Bearbox system instructed miners in accordance with the determined performance strategy, such as enabling certain miners to mine Bitcoin. The Bearbox system also included custom PDU software capable of providing fine grain load control (i.e. the ability to turn

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examples are listed below with reference to the current claim language. A detailed analysis of each module is provided in the Appendix.

- 1. arb_main_AEC.py Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to mining systems based on outcomes.
- 2. cgminer_sqlite_test.py Remotely communicates with miners to retrieve status information
- 3. email_alert.py Provides email alerts for mining machine states (on, off, restart, shutdown, etc)
- 4. EXELON4.py Computes "break even" point for mining Bitcoin in dollars per kilowatt-hour.
- 5. miner_amort_breakeven_.py Performs profitability determinations for dynamic power thresholds and manages mining system based on resulting performance strategy.

A.2.v. Claim 5

[87] Claim 5 is reproduced below:

The system of claim 4, wherein the performance strategy further comprises:

- at least one power consumption target that is greater than a minimum power threshold when the price of power from the power grid is below a threshold price during the time interval associated with the minimum power threshold.
- [88] It is my opinion that Bearbox was in possession of each claim element of claim 5 of the of the '433 patent. The sub-sections below provide additional detail concerning the basis for my opinion.
- [89] Bearbox conceived of and developed technology that includes a performance strategy that further comprises: at least one power consumption target that is greater than a minimum power threshold when the price of power from the power grid is below a threshold price during the time interval associated with the minimum power threshold.
- [90] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim 5 at least because the Bearbox system calculated profitability at distinct time intervals, each with SOURCE CODE OUTSIDE ATTORNEYS EYES ONLY RESTRICTED HIGHLYCONFIDENTIAL

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an associated power threshold, such as comparing mining profitability based on, inter alia, current power usage and energy price conditions on the one hand with profitability based, inter alia, on

expected future power usage and energy price condition. Each time interval included an associated

minimum power threshold used in periodically determining performance strategies, such as, inter

alia, whether to mine Bitcoin based on variables such as Bitcoin price and hashrate. The Bearbox

system also included custom PDU software capable of providing fine grain load control (i.e. the

ability to turn on some but not all of the miners) and also was configured to work modularly with

a variety of different miners that had different power requirements. ⁷

[91] I list below certain exemplary modules and files that I considered pertinent to my analysis and opinions. The noted modules perform functions related to a performance strategy further comprises: at least one power consumption target that is greater than a minimum power threshold when the price of power from the power grid is below a threshold price during the time

interval associated with the minimum power threshold. Non-exhaustive examples are listed below

with reference to the current claim language.

1. arb_main_AEC.py - Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to mining systems based on outcomes.

2. DA_LMP_import.py - Imports marketplace data and returns the day-ahead marginal power price (LMP)

3. DA_LMP_import_AEC.py - Imports marketplace data and returns the day-ahead marginal power price (LMP)

4. EXELON4.py - Computes "break even" point for mining Bitcoin in dollars per kilowatt-hour.

5. get_current_RT_LMP.py - Fetches marketplace data and returns the real-time local market price (LMP)

6. miner_amort_breakeven_.py - Performs profitability determinations for dynamic power thresholds and manages mining system based on resulting performance strategy.

⁷ Ex. 5, Deposition of Austin Storms, pp. 99-100, 290.

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7. LMP_csv_import.py - Retrieves the marginal power pricing data from Southwest Power Pool marketplace

8. test profit.py - Simulates a mining operation's profitability

9. test test test.py - Simulates a mining operation's profitability.

A.2.vi. Claim 6

[92] Claim 6 is reproduced below:

The system of claim 1, wherein the control system is further configured to:

receive subsequent power option data based, at least in part, on the power option agreement,

wherein the subsequent power option data specify to decrease one or more minimum power thresholds of the set of minimum power thresholds.

[93] It is my opinion that Bearbox was in possession of each claim element of claim 6

of the of the '433 patent. The sub-sections below provide additional detail concerning the basis for

my opinion.

[94] Bearbox conceived of and developed technology wherein the control system was

further capable of receiving subsequent power option data based, at least in part, on the power

option agreement, wherein the subsequent power option data specify to decrease one or more

minimum power thresholds of the set of minimum power thresholds.

[95] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim

6 at least because the Bearbox system calculated profitability at distinct time intervals, each with

an associated power threshold, such as comparing mining profitability based on, inter alia, current

power usage and energy price conditions on the one hand with profitability based, inter alia, on

expected future power usage and energy price condition. Each time interval included an associated

minimum power threshold used in periodically determining performance strategies, such as, inter

alia, whether to mine Bitcoin based on variables such as Bitcoin price and hashrate. The Bearbox

system also included custom PDU software capable of providing fine grain load control (i.e. the

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ability to turn on some but not all of the miners) and also was configured to work modularly with a variety of different miners that had different power requirements. ⁸

[96] I list below certain exemplary modules and files that I considered pertinent to my analysis and opinions. The noted modules perform functions related to receiving power option data based on a power option agreement in which minimum power thresholds at various time intervals. Non-exhaustive examples are listed below with reference to the current claim language. A detailed analysis of each module is provided in the Appendix.

- 1. arb_main_AEC.py Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to mining systems based on outcomes.
- 2. DA_LMP_import.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 3. DA_LMP_import_AEC.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 4. EXELON4.py Computes "break even" point for mining Bitcoin in dollars per kilowatt-hour.
- 5. get_current_RT_LMP.py Fetches marketplace data and returns the real-time local market price (LMP)
- 6. miner_amort_breakeven_.py Performs profitability determinations for dynamic power thresholds and manages mining system based on resulting performance strategy.
- 7. LMP_csv_import.py Retrieves the marginal power pricing data from Southwest Power Pool marketplace

A.2.vii. Claim 7

[97] Claim 7 is reproduced below:

The system of claim 6, wherein the control system is further configured to:

responsive to receiving the subsequent power option data, modify the performance strategy for the set of computing systems based on a combination of at least the portion of the subsequent power option data and at least one condition in the set of conditions,

Ex. 5, Deposition of Austin Storms, pp. 99-100, 290.
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modified performance strategy. Non-exhaustive examples are listed below with reference to the current claim language. A detailed analysis of each module is provided in the Appendix.

1. arb_main_AEC.py - Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to mining systems based on outcomes.

2. cgminer_sqlite_test.py - Remotely communicates with miners to retrieve status information

3. email_alert.py - Provides email alerts for mining machine states (on, off, restart, shutdown, etc)

4. test_profit.py - Simulates a mining operation's profitability

5. test_test_test.py - Simulates a mining operation's profitability.

A.2.ix. Claim 9

[106] Claim 9 is reproduced below:

The system of claim 1, wherein the control system is a remote master control system positioned remotely from the set of computing systems.

[107] It is my opinion that Bearbox was in possession of each claim element of claim 9 of the of the '433 patent. The sub-sections below provide additional detail concerning the basis for my opinion.

[108] Bearbox conceived of and developed technology wherein the control system is a remote master control system positioned remotely from the set of computing systems.

[1] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim 9 at least because the Bearbox system included individually addressable miners in communication with a control system over IP-based networking protocols. This feature was supported by Bearbox's networking capabilities, which included an Ethernet interface, a 48-port switch and onsite WAN or satellite interfaces and custom PDU software capable of providing fine grain load

⁹ See e.g. Ex. 4, May 9, 2019 email from A. Storms to M. McNamara, at BB00000090.

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control (i.e. the ability to turn on some but not all of the miners) and also was configured to work

modularly with a variety of different miners that had different power requirements. 10

[109] To the extent this feature is found not to be explicitly described in the Bearbox

disclosure, it is my opinion that merely ordinary skill would have been required to modify the

existing system to explicitly incorporate this feature. For example, using IP-based protocols for

communications between control systems physically remote from the resources under their control

has been a conventional feature of computing systems for decades.

[110] I list below certain exemplary modules and files that I considered pertinent to my

analysis and opinions. The noted modules perform functions related to remote master control

system positioned remotely from the set of computing systems. Non-exhaustive examples are

listed below with reference to the current claim language. A detailed analysis of each module is

provided in the Appendix.

1. arb_main_AEC.py - Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to

mining systems based on outcomes.

2. cgminer sqlite test.py - Remotely communicates with miners to retrieve status

information

3. DA_LMP_import.py - Imports marketplace data and returns the day-ahead

marginal power price (LMP)

4. DA_LMP_import_AEC.py - Imports marketplace data and returns the day-ahead

marginal power price (LMP)

5. email alert.py - Provides email alerts for mining machine states (on, off, restart,

shutdown, etc)

6. EXELON4.py - Computes "break even" point for mining Bitcoin in dollars per

kilowatt-hour.

7. get current RT LMP.py - Fetches marketplace data and returns the real-time

local market price (LMP)

¹⁰ Ex. 5, Deposition of Austin Storms, pp. 99-100, 290.

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[129] It is my opinion that Bearbox was in possession of each claim element of claim 14

of the of the '433 patent. The sub-sections below provide additional detail concerning the basis for

my opinion.

[130] Bearbox conceived of and developed technology that includes a system that

determines the performance strategy for the set of computing systems such that the performance

strategy comprises: a first power consumption target for the set of computing systems for the first

time interval, wherein the first power consumption target is equal to or greater than the first

minimum power threshold; and a second power consumption target for the set of computing

systems for the second time interval, wherein the second power consumption target is equal to or

greater than the second minimum power thresholds. For example, the Bearbox system calculated

profitability could use dynamic power thresholds at multiple time intervals, such as current and

day-ahead time intervals.

[131] The systems conceived of and/or developed by Bearbox satisfy this aspect of claim

14 at least because the Bearbox system calculated profitability at distinct time intervals, each with

an associated power threshold, such as comparing mining profitability based on, inter alia, current

power usage and energy price conditions on the one hand with profitability based, inter alia, on

expected future power usage and energy price condition. Each time interval included an associated

minimum power threshold used in periodically determining performance strategies, such as, inter

alia, whether to mine Bitcoin based on variables such as Bitcoin price and hashrate. The Bearbox

system also included custom PDU software capable of providing fine grain load control (i.e. the

ability to turn on some but not all of the miners) and also was configured to work modularly with

a variety of different miners that had different power requirements. 12

[132] I list below certain exemplary modules and files that I considered pertinent to my

analysis and opinions. The noted modules perform functions related to determining the

performance strategy for the set of computing systems such that the performance strategy

¹² Ex. 5, Deposition of Austin Storms, pp. 99-100, 290.

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comprises: a first power consumption target for the set of computing systems for the first time interval, wherein the first power consumption target is equal to or greater than the first minimum power threshold; and a second power consumption target for the set of computing systems for the second time interval, wherein the second power consumption target is equal to or greater than the second minimum power thresholds. Non-exhaustive examples are listed below with reference to the current claim language. A detailed analysis of each module is provided in the Appendix.

- 1. arb_main_AEC.py Processes marginal power price data to determine profitability of Bitcoin mining based on several parameters, and controls power to mining systems based on outcomes.
- 2. DA_LMP_import.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 3. DA_LMP_import_AEC.py Imports marketplace data and returns the day-ahead marginal power price (LMP)
- 4. EXELON4.py Computes "break even" point for mining Bitcoin in dollars per kilowatt-hour.
- 5. get_current_RT_LMP.py Fetches marketplace data and returns the real-time local market price (LMP)
- 6. miner_amort_breakeven_.py Performs profitability determinations for dynamic power thresholds and manages mining system based on resulting performance strategy.
- 7. LMP_csv_import.py Retrieves the marginal power pricing data from Southwest Power Pool marketplace

A.2.xv. Claim 15

[133] Claim 15 is reproduced below:

The system of claim 1, wherein a total duration of the set of time intervals corresponds to a twenty-four hour period.

[134] It is my opinion that Bearbox was in possession of each claim element of claim 15 of the of the '433 patent. The sub-sections below provide additional detail concerning the basis for my opinion.

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software in a large like super structure build. It's not specific to the housing in which the machines run.

- Q. Did you tell Mr. McNamara that?
- A. Yes.
- Q. What -- tell me everything you remember talking to either Mr. McNamara or his CFO.
- A. Yeah, so I talked with them about like their current physical infrastructure and what they were looking at from an electrical standpoint. I talked with them about ... their electrical engineer they said on staff who didn't like the Digital Shovel electrical distribution and why I thought it was a bad idea as well. I talked to them about physical characteristics of my BearBox units and why I thought that they were different than other offerings in the market, and I talked with them about ... some of the software that I was working on to offer flexibility for those units and ... their load and how they ... could be controlled and how you could really maximize the profitability depending on the setup.
- Q. Anything else?
- A. There's ... a lot that goes into that and some of the ideas around kind of ... how the development took place ... from the physical side of the power distribution units to me writing the software and understanding how electricity moves through the market.¹⁶

[172] I understand that Mr. Storms also described the physical characteristics of his BearBox and control software that Mr. Storms believed provided fine grain load control over the mining machines within the build (i.e. the ability to turn on or off a subset of miners). As Mr. Storms explained, dependent on variables such as power pricing, one could determine a strategy for how many machines to use mining, the break-even costs and the opportunity costs of those machines and how to calculate those values. In Mr. Storms' words, his system could be used to "maximize profitability" by determining when it's most profitable to utilize the power to mine Bitcoin or to sell the power back to the grid, in both the day-ahead and real-time markets.

[173] Mr. Storms testified that his discussions with Mr. McNamara and Lancium's CFO were "[e]xtremely specific":

I shared with them how to design database tables for a miner management system that could effectively pull in individual data from individual miners that were mapped to $PDUs^{[20]}$ and relays within the

¹⁶ Ex. 5, Deposition of Austin Storms, pp. 95-97.

¹⁷ Ex. 5, Deposition of Austin Storms, pp. 99-100.

¹⁸ Ex. 5, Deposition of Austin Storms, pp. 100-101.

¹⁹ Ex. 5, Deposition of Austin Storms, pp. 104-105.

²⁰ I understand a PDU refers to a Power Distribution Unit.

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to the grid (depicted with green dollar signs in the middle of the diagram). The diagram indicates

that the system may periodically (such as every 5-minutes, hourly, or the like) re-evaluate the

monitored conditions and implement a performance strategy based on those conditions.

[178] In addition, Bearbox also provided a comma-separated value (.CSV) file²⁵ that

described various monitored conditions, including Bitcoin price, Bitcoin block height, real time

LMP day ahead LMP, an estimated network hash rate and a network difficulty. This proprietary

.CSV file also described and/or explained how to determine a generated mining revenue figure to

be expect from using power to mine Bitcoin, a real time LMP revenue figure based on selling

energy to the grid at the current real time energy price, a day ahead LMP revenue figure based on

selling energy to the grid in the future at the day ahead energy price, and a realized revenue figure

that represented the most profitable of the three other revenue figures. In some instances, the most

profitable option was to mine Bitcoin (see, e.g., row 2 and cells H2 and L2), while in other

instances, the most profitable option was to sell energy to the grid (see, e.g., row 7 and cells K7

and L7).

A.2. My Opinions Concerning Whether the Information Provided by Bearbox to

Lancium Disclosed The Inventions Claimed in the '433 Patent

[179] In my opinion, the information provided by Bearbox to Lancium would have

enabled a person of ordinary skill the art to make and use the invention recited in claims 1-20,

either by its explicit description or because it was described in such detail that only ordinary skill

was required to modify the information to arrive at the claimed inventions.

A.3. The Claims of the '433 Patent

[180] I understand claims 1, 17 and 20 are the only Asserted Claims written in

independent form.

A.3.i. Claim 1

[181] Claim 1 is reproduced below:

²⁵ Ex. 4, BB00000097.

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- Q. In the context you're talking about, who sells the power back to the grid?
- A. Variety of different options there. It could be the generator sells the power back. It could be the mining facility sells the power back. It could be a different market participant depending on the ISO.
- Q. And what we've just been discussing, is that part of what you maintain you talked to Mr. McNamara about regarding how load can be controlled to maximize profitability?
- A. Yes
- Q. So anything else other than what we just -- so how -- in your memory, how specific were you with your discussions with Mr. McNamara and his CFO?
- A. Extremely specific.
- Q. What do you mean by that?
- A. I -- I shared with them how to design database tables for a miner management system that could effectively pull in individual data from individual miners that were mapped to PDUs and relays within the build to determine what the break-even cost is there, and then the power distribution unit and control system could at the same time toggle relays on or off or send a command to the miner to, you know, power on or power off or stop mining or change the mode which it's operating depending upon the power and price and things of that nature.
- Q. And you did -- you did all of this over dinner?
- A. Yeah. Almost like huddled up at the end of the table, yeah.
- Q. Did anybody else hear these conversations?
- A. Not to my knowledge, no.64

A.3. Lancium is using Bearbox's power arbitrage trade secrets

- [302] In my opinion, Lancium is using Bearbox's power arbitrage trade secrets.
- [303] It is my understanding that, in an email dated Fri, 16 Aug 2019, Mr. McNamara wrote the following: "As of today, we have a fixed price power contract with Calpine at Thomas Road for ATC power at~\$34/MWh. This is cool. We now have two revenue sources: Bitcoin mining and selling power back to grid."65 Based on this statement, I understand that this was the first such instance of Lancium engaging in power arbitrage of this nature.

⁶⁴ Ex. 5, Deposition of Austin Storms, pp. 104-106.

⁶⁵ Ex. 10, PX041, LANCIUM00033064.

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BEARBOX LLC AND AUSTIN	§	
STORMS,	§	
Plaintiffs,	§	
	§	
V.	§	
	§	CIVIL ACTION 1:21-cv-00534-MN-CJB
LANCIUM LLC, MICHAEL T.	§	
MCNAMARA,	§	
AND RAYMOND E. CLINE, JR., Defendants.	§ §	

Reply Expert Report of Dr. Stan McClellan

May 20, 2022

(SOURCE CODE – OUTSIDE ATTORNEYS EYES ONLY – RESTRICTED HIGHLY CONFIDENTIAL)

SOURCE CODE – OUTSIDE ATTORNEYS EYES ONLY – RESTRICTED HIGHLYCONFIDENTIAL

> Bearbox v. Lancium. (1:21-cv-00534-MN) U.S. Patent No. 10,608,433

provide instructions to the set of computing systems to perform one or more computational operations based on the performance strategy.

[22] It is my opinion that McNamara and Cline were not in possession of each claim element of claim 1 of the of the '433 patent at least as of May 1, 2019. The sub-sections below

provide additional detail concerning the basis for my opinion.

Claim 1(b): "a control system configured to: monitor a set of conditions;"

[23] In paragraph 114, Dr. Ehsani alleges that '632 Application teaches cryptocurrency

prices as an economic consideration. I disagree. While the '632 Application does mention

cryptocurrency mining as a possible use of its computing systems, it nowhere describes monitoring

cryptocurrency prices.

Claim 1(c): "receive power option data based, at least in part, on a power option agreement, wherein the power option data specify: (i) a set of minimum power thresholds, and (ii) a set of time intervals, wherein each minimum power threshold in the set of minimum power thresholds is

associated with a time interval in the set of time intervals"

[24] In paragraph 116, Dr. Ehsani refers to Lancium's supposed "flash of insight" in

which Cline and McNamara conceived of this aspect of claim 1. I note that this supposed "flash

of insight" occurred August 27, 2019, nearly four months after Lancium received Storms

information. I also note that this "flash of insight" appears to simply be repeating what MP2

representatives had told Lancium a few hours earlier that day. Ex. 6, LANCIUM00033240.

[25] As I explained in my Initial Report, the systems conceived of and/or developed by

Bearbox and communicated to Lancium satisfy this aspect of claim 1 at least because the Bearbox

systems calculated profitability at distinct time intervals, each with an associated power threshold,

such as comparing mining profitability based on, inter alia, current power usage and energy price

conditions on the one hand with profitability based, inter alia, on expected future power usage and

energy price conditions. For example, the Bearbox system used multiple time intervals, including

> Bearbox v. Lancium. (1:21-cv-00534-MN) U.S. Patent No. 10,608,433

the day-ahead hourly intervals and real-time 5-minute intervals, each of which included an

associated minimum power threshold used in periodically determining performance strategies (i.e.

every five minutes). The Bearbox system also included custom PDU software capable of

providing fine grain load control (i.e. the ability to turn on some but not all of the miners) and also

was configured to work modularly with a variety of different miners that had different power

requirements.1

[26] In my opinion, the Lancium system did not consider multiple time intervals with

associated power thresholds, as exemplified by the Lancium system described in the '632

Application (described above), until after its communications with Storms.

[27] In addition, I also explained that, to the extent this feature is found not to be

explicitly described in the Bearbox disclosure, it is my opinion that merely ordinary skill would

have been required to explicitly incorporate this feature. For example, the involvement of and

communication with a QSE in connection with power option agreements (and the data associated

with power option agreements) was well-known, conventional feature in the art at the time of the

invention.² Dr. Ehsani appears to agree with me to the extent he states that McNamara and Cline

were familiar with these well-known principles.

Claim 1(d): responsive to receiving the power option data, determine a performance strategy for the set of computing systems based on a combination of at least a portion of the power option data and at least one condition in the set of conditions, wherein the performance strategy comprises a power consumption target for the set of computing systems for each time interval in the set of time intervals, wherein each power consumption target is equal to or greater than the minimum power

threshold associated with each time interval"

¹ Ex. 7, Deposition of Austin Storms, dated February 23, 2022, pp. 99-100, 290.

² I discussed these issues and facts with Frank McCamant by telephone on April 1, 2022, and I have now since reviewed his report and my opinions have not changed. I reserve the right to supplement my report based on any additional information that may be included in his supplemental report.

Bearbox v. Lancium. (1:21-cv-00534-MN)

U.S. Patent No. 10,608,433

[77] In my experience writing code and simulations, a system designer will typically

make many assumptions about real-world variables in order to test other aspects of the system. For

example, in simulating a process that utilizes energy, one may assume an endless supply of power

so that other aspects, such as logic simulating a real-time profitability determination and the like,

can be tested more specifically. As the software is eventually released into a real-world application,

those assumed variables may be updated in the software to account for the real-world environment

in which the software operates. Based on my experience writing software, it is my opinion that a

POSA would understand that Mr. Storms' simulation assumed an unlimited amount of power to

test his profitability determination algorithm, and that (1) any real-world system will necessarily

need to account for power availability and (2) replacing Mr. Storms' assumed power availability

with data from an ISO or QSE was a well-known, conventional capability that would have required

merely ordinary skill to implement.

[78] While Dr. Ehsani eventually discusses the profitability spreadsheet in paragraphs

185-187, he again oversimplifies the document, implying that a POSA would not be ability to

decipher the process embodied in the spreadsheet. For example, Dr. Ehsani alleges that "The so-

called .CSV file is nothing more than a hard-coded Excel spreadsheet—meaning that it shows

values only. The document contains no source code, no mathematical formulas, no explicit logic,

no methodology, and, other than the respective column headings, the document contains no

description of any of the values or where those values came from." Yet, Cline contradicts this

implication, as he had no issues deciphering the methodology embodied in the spreadsheet:

Q. And Column L, it says, "Realized revenue."

Do you see that?

A. Yes.

Q. Do you know what that means?

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again conflates minute details of the simulation Storm built with the full breadth of the capabilities

of which the system both described in the various documents and embodied in the simulation serve

as proof of concept. A POSA would understand that are a finite number of sources of power (e.g.

grid power and behind-the-meter power), and that any of these limited sources would predictably

provide the power required to operate the system.

[83] In paragraph 196, Dr. Ehsani's mischaracterizes well-known principles and

features of the art as supposed contributions by McNamara and/or Cline

Claim 1(b): "a control system configured to: monitor a set of conditions;"

[84] In paragraph 198, Dr. Ehsani's mischaracterizes well-known principles and

features of the art as supposed contributions by McNamara and/or Cline.

Claim 1(c): "receive power option data based, at least in part, on a power option agreement, wherein the power option data specify: (i) a set of

minimum power thresholds, and (ii) a set of time intervals, wherein each

minimum power threshold in the set of minimum power thresholds is associated with a time interval in the set of time intervals"

[85] In paragraph 195, Dr. Ehsani alleges that because Bearbox's system diagram shows

behind the meter power, "There is no indication of grid connection or grid power." Dr. Ehsani

again conflates minute details of the simulation Storm built with the full breadth of the capabilities

of which the system both described in the various documents and embodied in the simulation serve

as proof of concept. A POSA would understand that are a finite number of sources of power (e.g.

grid power and behind-the-meter power), and that any of these limited sources would predictably

provide the power required to operate the system.

[86] In paragraph 200, Dr. Ehsani alleges that I fundamentally misunderstand the claim.

I disagree as the plain and ordinary meaning of the language supports the positions set forth in my

> Bearbox v. Lancium. (1:21-cv-00534-MN) U.S. Patent No. 10,608,433

Initial Report. Additionally, and as noted above, the Lancium system did not consider multiple time intervals with associated power thresholds until after its communications with Storms.

[87] In paragraph 201, Dr. Ehsani again conflates minute details of the simulation Storm built with the full breadth of the capabilities of which the system both described in the various documents and embodied in the simulation serve as proof of concept

[88] In paragraph 202, Dr. Ehsani' criticizes Mr. Storm's for not meeting ERCOT CLR requirements, but I note that the claim does not recite ERCOT CLR certification.

[89] In paragraph 203, Dr. Ehsani's mischaracterizes well-known principles and features of the art as supposed contributions by McNamara and/or Cline.

Claim 1(d): responsive to receiving the power option data, determine a performance strategy for the set of computing systems based on a combination of at least a portion of the power option data and at least one condition in the set of conditions, wherein the performance strategy comprises a power consumption target for the set of computing systems for each time interval in the set of time intervals, wherein each power consumption target is equal to or greater than the minimum power threshold associated with each time interval"

[90] In paragraph 205, Dr. Ehsani restates his arguments relating to power option agreements and the data associated therewith. I disagree with this statement for the reasons set forth above.

[91] In paragraph 206, Dr. Ehsani criticizes Storms for acknowledging that certain aspects of the invention, such as Bitcoin mining, retrieving energy price and availability data, are conventional aspects of the art. I disagree that this acknowledgement by Storms implies a lack of contribution. All inventions utilize and build-upon well-known, conventional technologies.

[92] In paragraphs 206 and 207, Dr. Ehsani mischaracterizes well-known principles and features of the art as supposed contributions by McNamara and/or Cline. I also disagree with his analysis for the reasons I disagree with his analysis in paragraph 117 of his report.

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[249] In paragraph 112, Mr. Baer states "None of the 11 identified source code files determine a performance strategy comprising a power consumption target for any time intervals where the power consumption target is equal to or greater than a minimum power threshold for a specific time interval and that is received by the system." I disagree for the reasons stated in my Initial Report. In addition, as noted above, in paragraph 104, Mr. Baer acknowledges that the system operates on a five minute interval. As a result, when a decision is made to turn on a miner(s) by the Bearbox software, the system operates at the energy level reflected in the *kW_load* variable

Claim 1(e): "provide instructions to the set of computing systems to perform one or more computational operations based on the performance strategy"

[250] In paragraphs 113 and 114, Mr. Baer indicates that his analysis of this limitation is limited to the source code only, and not the entirety of the evidence supporting Storms' conception.

- [251] In paragraph 115, Mr. Baer restates his arguments relating to element 1(d), which I disagree with for the reasons states above.
- [252] In paragraph 116, Mr. Baer restates his arguments set forth in paragraph 102. I disagree with his analysis for the reasons set forth above in my response to paragraph 102.
- [253] In paragraph 117, Mr. Baer misleadingly cites Mr. Storms testimony in conflating minute details of the simulation Storm built with the full breadth of the capabilities of which the system both described in the various documents and embodied in the simulation serve as proof of concept. Mr. Storms actual testimony stated that he did conceive of the relevant functionality:
 - Q. Had you written code that would tell the miners that they must maintain five megawatts of load and could not drop below that regardless of what the price of power was?

for a 5-minute interval.

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A. Yeah, so the system's definitely capable of doing that. I would say that the miners themselves aren't instructed to maintain a certain amount of load. The total build is, right.

- Q. But had you written -- had you written code to ensure that the total build would, in fact, maintain that amount of load?
- A. Yeah, I definitely -- I conceived of that at the time as it relates to, you know, buying power from various entities, and the system's capable of doing that because of how I architected it...

Ex. 7, Storms Dep. at 171:12-172:2

[254] In addition, as noted above, in paragraph 104, Mr. Baer acknowledges that the system operates on a five minute interval. As a result, when a decision is made to turn on a miner(s) by the Bearbox software, the system operates at the energy level reflected in the *kW_load* variable for a 5-minute interval.

[255] In paragraph 119, Mr. Baer again conflates minute details of the simulation Storm built with the full breadth of the capabilities of which the system both described in the various documents and embodied in the simulation serve as proof of concept in alleging that the Bearbox source code did not allow for turning individual miners on and/or off. I disagree for the reasons stated above.

[256] In paragraph 120, Mr. Baer states "to the extent turning all relays of connected PDUs on or off together (and thus turning all connected computers, such as Bitcoin miners on or off together) could be considered a "performance strategy" it is not a performance strategy as that term is used in the claims of the '433 patent and is not a performance strategy to maintain a power consumption target that is equal to or greater than a specified minimum power threshold for a specific time period." Mr. Baer again conflates minute details of the simulation Storm built with the full breadth of the capabilities of which the system both described in the various documents

	Page 70	Page 72
	Page 70	Page 72
1	Q. Was it a nondisclosure agreement or was it	them were confidential?
2	something else?	A. Yes.
3	A. I believe it was a nondisclosure agreement.	Q. Why? What's the basis?
4	Q. Did you have a nondisclosure agreement with	4 A. The basis for that confidentiality is the
5	GlidePath?	5 footer I include in the e-mails and the understanding
6	A. I believe so.	between two parties.
7	Q. Do you know at that time was GlidePath also	7 Q. So that footer is included on all your
8	working with a company called BuySellAds?	8 e-mails, isn't it?
9	A. I don't believe they were.	9 A. Yes.
10	Q. Did you ever work with BuySellAds?	Q. So other than the footer on the e-mail did
11	A. Yes.	you have any other basis for believing your
12	Q. What what what was the nature of your	communications with the BuySellAd guys at this time were
13	relationship with BuySellAds?	13 confidential?
14	A. I was a contractor.	A. Other other than the I guess the verbal
15	Q. When was that?	understanding that those communications were confidential
16	A. In late 2019 through I guess like mid 2020.	and the e-mail footer, no.
17	It was it was part of the it was the original	Q. Maybe maybe I missed something, but I
18	entity that Great American Mining spun out of.	thought you said that at this time you hadn't talked to
19	Q. Okay. Prior to actually becoming a	them, that it was just e-mail communication?
20	consultant for them did you have communications with	A. I met Todd who's the CEO of BuySellAds
21	them?	briefly at the Fidelity summit, but that was the only
22	A. I believe so, yes.	conversation I'd had with him at the time.
23	Q. What did those communications relate to?	Q. Had you said anything to him before then?
24	A. They related to certain things surrounding	A. I don't believe so.
	Page 71	Page 73
1	the BearBox technology.	Q. What did you and Todd talk about at the
2	Q. What what specific things do you remember	Fidelity conference?
3	that those communications related to?	3 A. We we talked about BearBox containers.
4	A. I I don't remember specific things. I	4 Q. What did you tell him about them?
5	imagine some high level high level descriptions of	5 A. Bunch of different ways I thought they could
6	what the BearBox technology was, what it could be used	6 be utilized for, you know, stranded, essentially stranded
7	for and and the like.	or unized for, you know, stranded, essentially stranded energy assets and and monetizing those.
8	Q. Do you think you had specific conversations	8 Q. And what's Todd's last name?
9	with them but you just don't remember or do you think the	9 A. Garland.
10	conversations were high level?	Q. Garland. When did you speak to Todd about
11	A. I don't believe I had any conversations with	that?
12	them.	12 A. It was during the day at the conference when
13	Q. I mean e-mail as well. I don't just mean	13 I met him.
14	conversations.	Q. How long did you talk to him?
15	A. Oh, no, yeah, I I don't recall. There	15 A. Maybe 15 minutes.
16	could have been some specifics, but, again, I'd have to	Q. Did he tell you at that time he was going to
17	review some of that stuff.	keep the information confidential?
18	Q. Did you have a nondisclosure agreement with	18 A. I don't recall.
19	the BuySellAd guys when you were having the having the	Q. Did you ask him to?
20	e-mail exchanges with them that at least right now were	A. I don't I don't think at that time the
21	characterized as a high level?	21 answer's no.
22	A. I don't believe that I had a nondisclosure	Q. So was the Fidelity conference was it a
23	agreement with them at the time.	one-day conference or was it longer?
	-	
24	Q. Did you understand your conversations with	A. I believe it was a one-day summit.

	Page 186	Page 188
1	Q. What makes it confidential?	Q. Was there an NDA at this time in place
2	A. That it wasn't published non-confidential.	between you and he?
3	I'm not sure I understand the question.	A. There was not.
4	Q. Well, I just just wondering, you know, if	4 Q. Was there an NDA between GlidePath and Mr.
5	there's something specific about it that you believe	5 Garland?
6	makes it confidential?	A. I don't believe so.
7	A. I would say it's it's confidential because	⁷ Q. Then why are you sending it to him?
8	it wasn't published in an open source forum. It's	8 A. Because this was information that I I did
9	something that resided in my machine.	9 myself.
10	Q. What is Github, G-I-T-H-U-B?	10 Q. Okay.
11	A. It's a version control mechanism.	A. Yeah, none of the information in these
12	Q. For software?	spreadsheets was provided to me by GlidePath, and I had
13	A. Correct.	the same information for, you know, every other pricing
14	Q. Is Github public or private?	14 node.
15	A. It can be either.	Q. You just chose to use GlidePath nodes?
16	Q. Can be either.	A. Yep. Those are the ones that I had the most
17	I'll mark Exhibit 51. So the Todd at	complete modeling set for.
18	todd@buysellads, is that Todd Garland?	Q. Okay. Did you have any agreement with Mr.
19	A. Correct.	Garland to keep this confidential?
20	Q. And why are you sending Todd Garland this	A. Nothing besides his word and the
21	information?	confidentiality notice at the bottom of this e-mail.
22	A. Which information?	Q. Did he give you his word he was going to keep
23	Q. The information in the attachment.	it confidential?
24	A. This is information to verify some of the	A. Not explicitly.
	Page 187	Page 189
1	Page 187 calculations around what the BearBox system could	Page 189 1 Q. So no?
1 2	_	
	calculations around what the BearBox system could	1 Q. So no?
2	calculations around what the BearBox system could potentially do.	Q. So no? A. No would be the correct answer there, yeah.
2	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland?	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the
2 3 4	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the
2 3 4 5	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the
2 3 4 5	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I
2 3 4 5 6	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox.	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be
2 3 4 5 6 7 8	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit?	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better.
2 3 4 5 6 7 8	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit? A. Um-hum.	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better. A. Yeah, there are there are a few
2 3 4 5 6 7 8 9	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit? A. Um-hum. Q. And what is Exelon on this data?	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better. A. Yeah, there are there are a few differences. I reorganized some of the columns to make
2 3 4 5 6 7 8 9 10	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit? A. Um-hum. Q. And what is Exelon on this data? A. Exelon is the specific pricing nodes within	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better. A. Yeah, there are there are a few differences. I reorganized some of the columns to make it flow better, but the columns and the data are the
2 3 4 5 6 7 8 9 10 11	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit? A. Um-hum. Q. And what is Exelon on this data? A. Exelon is the specific pricing nodes within the within the Southwest Power Pool.	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better. A. Yeah, there are there are a few differences. I reorganized some of the columns to make it flow better, but the columns and the data are the same.
2 3 4 5 6 7 8 9 10 11 12	calculations around what the BearBox system could potentially do. Q. And why are you sending it to Todd Garland? A. Oh, so I sent it to Todd Garland because they were interested in pursuing cheap power and something that I believe I communicated to him at the Fidelity summit was that I had a way to do that via BearBox. Q. So this is a follow-up from that summit? A. Um-hum. Q. And what is Exelon on this data? A. Exelon is the specific pricing nodes within the within the Southwest Power Pool. Q. And this is for the GlidePath wind farm, the	Q. So no? A. No would be the correct answer there, yeah. Q. So I'm trying to figure out if this if the columns on the data here, the headings are basically the same headings as the previous headings on the spreadsheets you sent out to Mr. Hakes. The version I have here is kind of crunched together. Yours might be horizontal. It might be better. A. Yeah, there are there are a few differences. I reorganized some of the columns to make it flow better, but the columns and the data are the same. Q. Okay. I hand you what I'll mark as Exhibit
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Page 190 Page 192 1 Q. So that's Python code for calculating settlement locations to prove that it is more profitable 2 2 get_breakeven_usdollar_perkilowatthour? to mine Bitcoin than sell the power to the grid most of 3 A. Yes. the time. Q. And what -- this is part of your Python code, Q. And so the modeling that you're doing here is I take it? basically using the price information of power and 6 calculating whether it's cheaper to mine -- whether the A. It is. cost of power is above the cost of mining or below the Q. Is this, again, this code that was running on 8 8 your model on the system in your apartment or is cost of mining or is it more complex than that? 9 this -- was running somewhere else? A. Ask the question one more time. 10 A. Correct, in my apartment. Q. Yeah, let me see if I can phrase it better. 11 11 Q. Okay. What -- what specific code is -- code So when you're calculating -- I'll just ask 12 12 file is this running in, do you remember, is this part it off the data here. When you're calculating the data 13 in the columns here, what is the -- what is the column 14 14 A. There's -- there's a bunch of different code that you're looking at to determine whether it's more 15 15 files that this snipet runs in. profitable to mine or to not mine? 16 16 Q. And which -- can you identify them for me? A. The comparison would be between the day-ahead 17 17 A. Exelon 10 11, all those Exelon files, the LMP revenue column, the real-time LMP revenue column and 18 Dennis Logic, new gen, basically anywhere that you would 18 the mining revenue column. 19 19 have to calculate a break-even U.S. dollar cost per Q. And so if the mining revenue column is 20 20 greater, it makes more sense to mine? kilowatt hour for a miner. 21 Q. Okay. And then what's the -- what's the 21 A. Correct, and that -- and that should 22 22 second box down here represent? represent itself in the realized revenue column. 23 23 A. It was a terrible attempt by me to give a Q. And if it's cheaper not to mine, then that 24 24 would be represented in the day-ahead LMP and the fully amortized cost for five minutes -- five-minute Page 191 Page 193 revenue. I'm not an accountant. It wasn't -- it didn't real-time LMP columns? 2 work well. 2 A. If it's cheaper not to mine. Can you ask 3 3 Q. Okay. So I noticed Ben Hakes isn't included that one more time? on this. Why is Mr. Hakes not included in these e-mails? 4 Q. Well, so if I understand correctly, if it's 5 A. I didn't have any reason to include Ben in 5 more profitable to mine, it's reflected in the mining 6 these e-mails. 6 revenue column? Q. I hand you one more here. This is A. Well, the mining revenue column is always 8 8 Defendants' Exhibit 53. So can you tell me what Exhibit reflecting the mining revenue given the power. 9 9 Q. Yeah, I'm sorry. So if -- if it's more 10 10 A. It's an e-mail from me to the GlidePath guys profitable to mine, you compare -- you compare the mining 11 11 and Ben Hakes. revenue column with what columns to make that 12 Q. And why are you sending this to the GlidePath 12 determination? 13 13 guys and Ben Hakes? A. The day-ahead LMP rev and the real-time LMP 14 A. Because I told them I was going to the 14 rev. 15 15 conference/summit and that I would give them an update Q. And so if the mining revenue's greater, it's 16 based on information that I learned at the summit. 16 more profitable to mine? 17 Q. Is this -- is this -- I haven't gone through 17 A. Correct. 18 it and done a complete comparison, but is this basically 18 And if the mining revenue is less, then it Q. 19 19 the same type of data that you sent to Mr. Garland at doesn't make sense to mine? 20 BuySellAds the day -- on the 3rd? 20 Correct. 21 21 A. Yes, it does look similar. **Q.** And then in the context of where the mining 22 What -- what's the purpose of sending this to 22 revenue column is less, what did your model contemplate 0. 23 23 GlidePath? doing at that point? 24 24 A. To send them the modeling data and these A. The model contemplates selling that amount of

Page 246 Page 248 1 A. Yeah, interested is like so many varying 1 account in totality was to communicate to the general 2 2 public what I was working on. levels, right. 3 3 Q. So what -- what did they say to you about --Q. Okay. So it was available to the general 4 4 after you got -- after your conversation -- well, what public and then it was not, is that -- am I understanding 5 you correctly? did you tell them? 6 6 A. I told like how -- how my system worked. I A. You are, yes. 7 7 told them how I communicated it to McNamara and the Q. Okay. And if you look at the first page, 8 8 Lancium CFO at the dinner. I told them that I had e-mail Page 717, it says: "Casually pitch the idea of using 9 9 correspondence going back and forth and text message Bitcoin mining as load as a service to a PM at Entergy 10 10 over the last year." Do you see that? correspondence as well and that I believe that what they 11 11 were suing or getting sued for by Lancium was something A. Yeah. 12 12 that I taught McNamara and told him how to do in great **Q.** Who is that? 13 detail. 13 A. I don't remember his name. I met him at a 14 14 **Q.** What did they respond? Mardi Gras event -- at a young life event at the -- it 15 15 A. I guess they didn't really respond. They might be Avenue Pub. I want to say Charles Avenue. I 16 16 just asked for me to send them a few things. know he's a PM for Entergy but that's about it. 17 17 **Q.** And you sent them those things? Q. Okay. And so the stuff on this Twitter was 18 Yeah. 18 public for a long time; is that fair, and then it was 19 Was it one conversation or more than one 19 0. 20 conversation? 20 A. Yeah, it was -- it was public for maybe two 21 21 A. Just one conversation. years or so. 22 **Q.** Let me mark this as Exhibit 67. And is this 22 Q. Okay. So let me mark Exhibit 69 which is 23 23 BEARBOX1 through 43. So maybe just to save time here I what you sent them, Exhibit 67? 24 24 would -- just trying to figure out sort of what all of A. Yes, it appears so. Page 247 Page 249 1 Q. And you're aware -- after this -- they 1 these different pictures are. There's pictures of 2 received this information do you know what they did with different things, and maybe if we just go one at a time 3 it? by Bates number and you just tell me quickly what it's a 4 A. I don't know what they did with it. picture of, and then I'll stop and ask you questions if 5 Q. And you're aware they ultimately settled the something else comes up. 6 case with Lancium, aren't you? A. Sounds good. A. I'm aware of the settlement, yes, sir. Q. Okay. So let's start with Page 1. Q. I'll mark Defendants' Exhibit 68. Can you 8 A. Page 1 is a picture of a single miner running 9 just identify Exhibit 68? 9 in my apartment that's connected to a 120-volt circuit to 10 A. Exhibit 68 is a printout of the BearBox the wall. There's an early relay controller called a 11 11 Twitter account. Sanesmart 16 channel. There's a 25 amp solid state Q. And that's -- these tweets are created by 12 relay, the white part on the stool. Then there's a large 13 13 you? white box on the stool that is an AC to DC inverter that 14 Yes. 14 applies voltage to a coil. Α. 15 15 What's the purpose of this Twitter account? Q. Can you tell sort of what the date is in this 16 A. To communicate things that BearBox as a 16 picture just from looking at it roughly or not? 17 company was working on and have presence within Twitter. 17 A. I can't. I think we produced metadata with 18 Q. Just to the general public? 18 these picture. 19 19 A. Yeah, at the time it was locked but previous Q. Yeah. I'm just trying to figure out where in to that it was not. 20 the process of creating the model in your apartment this 21 21 O. You say "at the time it was locked." A. At the time of this printout the Twitter 22 A. Oh, this is really early. That's -- that's 23 23 account was in private mode, so it wouldn't have been to the first relay controller and solid state relay that I 24 24 the general public, but the purpose of the Twitter bought. The solid state relay got like super hot with

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Message

From:

Austin Storms [austin@bearbox.io]

on behalf of

Austin Storms <austin@bearbox.io> [austin@bearbox.io]

Sent:

5/3/2019 2:51:35 PM todd@buysellads.com

To: Subject:

Fwd: EXELON DATA MODELING DUMP 2

Attachments: EXELON4.csv; ATT00002.bin; EXELON7_8.csv; ATT00004.bin; EXELON5_6.csv; ATT00006.bin; EXELON_HPW1.csv;

ATT00008.bin; EXELON10_11.csv; ATT00010.bin; EXELON9.csv; ATT00012.bin

See attached.

Begin forwarded message:

From: Austin Storms <austin@bearbox.io> Date: May 3, 2019 at 12:15:58 PM EDT To: Austin Storms < austin@bearbox.io > Cc: Ben Hakes < ben@paretoadvisors.com>

Subject: EXELON DATA MODELING DUMP 2

See attached.

Austin M. Storms BearBox, LLC 611 O' Keefe Avenue New Orleans, LA 70113 austin@bearbox.io

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realized_rev	2.2484294	2.2480744	2.2478631	2.24889	2.2806172	2.2824342	2.2250598	2.2257324	2.2450369	2.244784	2.2656139	2.2706452	2.2689395	2.2602762	2.184522	2.1837713	2.1668382	2.1668382	2.1679698	2.1683117	2.1856184	2.187116	2.1683719	2.1652392	2.1710449	2.1632744	2.1637101	2.1649562	2.1787132	2.1819493	2.2001303	2.1728179	2.1719184	2.1736808	2.1740715	2.1985565	2.1986182	2.211515	2.2121278	2.2246529	2.2230187	2.224944	2.2281334	2.2281417	2.2350485	2.2857722
mining_rev_realized_rev	2.2484294	2.2480744	2.2478631	2.24889	2.2806172	2.2824342	2.2250598	2.2257324	2.2450369	2.244784	2.2656139	2.2706452	2.2689395	2.2602762	2.184522	2.1837713	2.1668382	2.1668382	2.1679698	2.1683117	2.1856184	2.187116	2.1683719	2.1652392	2.1710449	2.1632744	2.1637101	2.1649562	2.1787132	2.1819493	2.2001303	2.1728179	2.1719184	2.1736808	2.1740715	2.1985565	2.1986182	2.211515	2.2121278	2.2246529	2.2230187	2.224944	2.2281334	2.2281417	2.2350485	2.2857722
	0.1148245	0.1466834	0.1373148	0.1104898	0.0624833	0.020077	0.1127237	0.1761476	-0.0179174	0.0356986	-0.1450189	-0.2982925	-0.0109094	-0.0046874	-0.5978598	-0.9782021	-0.9502324	-0.9234414	-0.8310422	-0.9483203	-0.978493	-0.9578962	-0.1069255	-0.6045428	-0.5552431	-0.8631951	-0.9376676	-0.8182238	-0.6113466	-0.6255047	-0.6133112	-0.912136	-0.7373745	-0.5927052	-0.9571475	-0.9400191	-0.9348397	-0.8625917	-0.8681702	-0.8182887	-0.8413731	-0.8413793	-0.8888598	-0.8663107	-0.8009933	-0.0943268
ahead_LMP_rev_real_ti	0.1586418	0.1586418	0.1586418	0.1586418	0.1586418	0.1586418	0.1586418	0.1586418	0.1586418	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	0.0094336	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0057765	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	-0.0073173	0.0673811	0.0673811
BTC_price day_ahead_LMP real_time_LMP breakeven_mining_cost day_ahead_LMP_rev real_time_LMP_rev	0.0737773	0.0737656	0.0737587	0.0737924	0.0748335	0.0748931	0.0730105	0.0730325	0.073666	0.0736577	0.0743412	0.0745063	0.0744503	0.074166	0.0716803	0.0716557	0.0711001	0.0711001	0.0711372	0.0711484	0.0717163	0.0717654	0.0711504	0.0710476	0.0712381	0.0709831	0.0709974	0.0710383	0.0714897	0.0715959	0.0721925	0.0712963	0.0712668	0.0713246	0.0713374	0.0721408	0.0721428	0.072566	0.0725861	0.0729971	0.0729435	0.0730067	0.0731113	0.0731116	0.0733382	0.0750026
eal_time_LMP_breal	0.0037112	0.0047409	0.0044381	0.0035711	0.0020195	0,0006489	0.0036433	0.0056932	-0.0005791	0.0011538	-0.0046871	-0.009641	-0.0003526	-0.0001515	-0.0193232	-0.0316161	-0.0307121	-0.0298462	-0.0268598	-0.0306503	-0.0316255	-0.0309598	-0.0034559	-0.0195392	-0.0179458	-0.027899	-0.030306	-0.0264455	-0.0197591	-0.0202167	-0.0198226	-0.0294808	-0.0238324	-0.0191566	-0.0309356	-0.030382	-0.0302146	-0.0278795	-0.0280598	-0.0264476	-0.0271937	-0.0271939	-0.0287285	-0.0279997	-0.0258886	-0.0030487
_ahead_LMP r	0.0051274	0.0051274	0.0051274	0.0051274	0.0051274	0.0051274	0.0051274	0.0051274	0.0051274	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	0.0003049	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0001867	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	-0.0002365	0.0021778	0.0021778
BTC_price day	5320.85	5320.01	5319.51	5321.94	5321.95	5326.19	5326.23	5327.84	5327.8	5327.2	5325.01	5325.01	5321.01	5327.95	5325.19	5323.36	5323.1	5323.1	5325.88	5326.72	5326.69	5330.34	5330.78	5329.45	5343.74	5334.1	5330.7	5333.77	5332.07	5339.99	5343.15	5338.61	5336.4	5340.73	5341.69	5347.99	5348.14	5341.24	5342.72	5349,99	5346.06	5350,69	5358.36	5358.38	5374.99	5380.56
	E+13	5.38327E+13	5.38327E+13	5.38327E+13	5.30839E+13	5.30839E+13	5.44532E+13	5.44532E+13	5.39845E+13	5.39845E+13	5.34662E+13	5.33477E+13	5.33477E+13	5.36221E+13	5.54528E+13	5.54528E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.54406E+13	5.54406E+13	5.59245E+13	5.59914E+13	5.59914E+13	5.60912E+13	5.60441E+13	5.60441E+13	5.56725E+13	5.56725E+13	5.52451E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.53347E+13	5.53347E+13	5.49411E+13	5.49411E+13	5.47061E+13	5,47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.35475E+13
etwork_diff es	6.35303E+12																																													
nlock_height n				574204		574205 (Ж,	574207				574209 (574212 (574212	574215	574215	574215 (574215 (574216 (574216 (574219 (574220 (574220 (574223 (574226	574226	574227 (574227		574229 (574229 (574230 (574230	574231	574231 (574232 (574232 (574232 (574232 (574232 (574232 (574233 (
datetime b	17:54.4	22:57.3	28:00.5	33:03.6	38:06.6	43:09.6	48:12.6	53:15.7	58:18.9	03:21.8	08:24.9	13:28.6	18:31.5	23:35.0	28:38.3	33:41.4	38:44.4	43:47.3	48:50.3	53:53.3	58:56.4	03:59.3	09:02.8	14:05.9	19:08.9	24:11.9	29:14.9	34:17.9	39:21.0	44:24.0	49:27.4	54:30.5	59:33.7	04:36.7	8.68:60	14:43.1	19:46.4	24:49.4	29:53.0	34:56.1	39:59.3	45:02.9	50:06.0	55:09.1	00:12.7	05:15.7

2 2765324	2.2779088	22770464	2 2933275	2.2890484	2.2870587	2.2976295	2.3100592	2.3107995	2.308081	2.3043114	2.303842	2.314487	2.2762	2.2635505	2.2499632	2.2517522	2.2518404	2.2536211	2.2538956	2.2073645	2.2053511	2.2138386	4.8880868	2.1943466	2.1774367	2.1895872	2.182771	2.1831816	2.182397	2.1711281	2.1711281	2.1726015	2.1732573	2.1711281	2.1700675	2.2323717	2.2356531	2.2349743	2.2353033	2.2764693	2.2753756	2.2726709	2.2730567	2.2779191	2.3262005	2.215053
2.2765324	2.2779088	2 2770464	2.2933275	2.2890484	2.2870587	2,2976295	2.3100592	2.3107995	2.308081	2.3043114	2.303842	2.314487	2.2762	2.2635505	2.2499632	2.2517522	2,2518404	2.2536211	2,2538956	2.2073645	2.2053511	2.2138386	2.2149045	2.1943466	2.1774367	2.1895872	2.182771	2.1831816	2.182397	2.1711281	2.1711281	2.1726015	2,1732573	2.1711281	2.1700675	2.2323717	2.2356531	2.2349743	2.2353033	2.2764693	2.2753756	2.2726709	2.2730567	2.2779191	2.3262005	2.215053
-0.0361874	-0.0361874	-0.563996	-0.4649787	-0.4649787	-0.5093157	-0.9790189	-0.9385525	-0.18327	-0.0565119	-0.9771997	-0.9416341	-0.0083507	0.0053619	0.0228492	-0.1095493	-0.0567625	0.1412163	-0.4905011	-0.0580589	0.0402529	0.0388575	0.1424725	4.8880868	0.4037794	0.2908886	0.3111203	0.2418673	0.1956089	0.1923787	0.225336	0.2176351	0.2250204	0.2714614	0.2897222	0.4155861	0.336652	0.2584356	0.247421	0.2074249	0.2386062	0.2172916	0.248377	0.2496889	0.3158293	0.251536	0.2370685
0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.0673811	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.3621218	0.5127562	0.5127562	0.5127562	0.5127562	0.5127562	0.5127562	0,5127562	0.5127562	0.5127562	0.5127562	0.5127562	0.5127562	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5211626	0.5777457
0.0746994	0.0747446	0.0747163	0.0752505	0.0751101	0.0750448	0.0753917	0.0757995	0.0758238	0.0757346	0.0756109	0.0755955	0.0759448	0.0746885	0.0742735	0.0738276	0.0738863	0.0738892	0.0739476	0.0739567	0.0724298	0.0723638	0.0726423	0.0726772	0.0720027	0.0714478	0.0718465	0.0716229	0.0716363	0.0716106	0.0712408	0.0712408	0.0712892	0.0713107	0.0712408	0.071206	0.0732504	0.0733581	0.0733358	0.0733466	0.0746974	0.0746615	0.0745727	0.0745854	0.0747449	0.0763292	0.0726821
-0.0011696	-0.0011696	-0.0182287	-0.0150284	-0.0150284	-0.0164614	-0.0316425	-0.0303346	-0.0059234	-0.0018265	-0.0315837	-0.0304342	-0.0002699	0.0001733	0.0007385	-0.0035407	-0.0018346	0.0045642	-0.0158533	-0.0018765	0.001301	0.0012559	0.0046048	0.157986	0.0130504	0.0094017	0.0100556	0.0078173	0.0063222	0.0062178	0.007283	0.0070341	0.0072728	0.0087738	0.009364	0.013432	0.0108808	0.0083528	0.0079968	0.0067041	0.0077119	0.007023	0.0080277	0.0080701	0.0102078	0.0081298	0.0076622
0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.0021778	0.011704	0.011704	0.011704	0,011704	0.011704	0.011704	0.011704	0.011704	0.011704	0.011704	0.011704	0.011704	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0165726	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0168443	0.0186731
5358.81	5362.05	5360.02	5359.43	5349.43	5344.78	5350.2	5349.03	5355,31	5349.01	5350.18	5349.09	5348.27	5354.35	5358.66	5357.51	5361.77	5361.98	5366.22	5365.01	5360.99	5356.1	5358.27	5360.85	5360.76	5358,19	5364.52	5368.93	5369.94	5368.01	5363.48	5363.48	5367.12	5368.74	5363.48	5360.86	5360.85	5368.73	5367.1	5367.89	5369.99	5367.41	5361.03	5361.94	5373.41	5380.52	5372.23
5.35475E+13	5.35475E+13	5.35475E+13	5.31615E+13	5.31615E+13	5.31615E+13	5.29706E+13	5.26741E+13	5.2719E+13	5.2719E+13	5.28168E+13	5.28168E+13	5.25658E+13	5.35108E+13	5.38531E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.41479E+13	5.52479E+13	5.52479E+13	5.50584E+13	5.50584E+13	5.55733E+13	5.5978E+13	5.57331E+13	5.59531E+13	5.59531E+13	5.59531E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.46276E+13	5.46276E+13	5.46276E+13	5.46276E+13	5,36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.26165E+13	5.51716E+13
3 6.35303E+12				4 6.35303E+12	4 6.35303E+12	6 6.35303E+12	7 6.35303E+12	8 6.35303E+12	8 6.35303E+12	9 6.35303E+12	9 6.35303E+12	0 6.35303E+12	3 6.35303E+12	5 6.35303E+12	6 6.35303E+12	6 6.35303E+12	6 6.35303E+12		8 6.35303E+12	1 6.35303E+12	1 6.35303E+12	2 6.35303E+12	2 6.35303E+12	4 6.35303E+12	5 6,35303E+12	6 6.35303E+12	7 6.35303E+12	7 6.35303E+12	7 6.35303E+12					8 6.35303E+12				0 6.35303E+12	0 6.35303E+12	1 6.35303E+12	3 6.35303E+12	6 6.35303E+12				
10:18.8 574233				30:31.4 574234	35:34.9 574234	40:37.9 574236	45:40.9 574237	50:43.9 574238	55:46.8 574238	00:49.8 574239	05:52.7 574239	10:55.6 574240	15:58.4 574243	21:01.3 574245	26:04.2 574246		36:10.5 574246	41:13.6 574246	46:16.7 574248	51:19.6 574251	56:22.6 574251	01:25.7 574252	06:29.7 574252	11:34.4 574254	16:37.5 574255	21:40.6 574256	26:43.8 574257	31:46.9 574257	36:49.8 574257							12:16.3 574260	17:19.2 574260	22:22.2 574260	27:25.3 574260	32:28.2 574261	37:31.2 574261	42:34.3 574261	47:37.2 574261	52:40.2 574261	57:43.1 574263	02:46.1 574266

	C1.300000	. 100000	1	100000	100000		100000		2.173030
214769	0.333035+12	3.30330E+13	5350.76	U.U.165/31	0.008065	0.0714536	154//50	17445477 7776743	11/61/14
574270	6.35303E+12	5.6144E+13	5352.52	0.0186731	0.0075466	0.0711611	0.5777457		2.1686995
574271	6.35303E+12	5.6095E+13	5356.14	0.0186731	0.007405	0.0712715	0.5777457		2.172064
574271	6.35303E+12	5.6095E+13	5350.02	0.0186731	0.0072809	0.0711901	0.5777457		2.1695821
574271	6.35303E+12	5.6095E+13	5354.6	0.0186731	0.0074885	0.071251	0.5777457	0.2316942 2.1714394	2.1714394
574273	6.35303E+12	5.53104E+13	5354.48	0.0186731	0.0079015	0.0722601	0.5777457	0.2444724 2.2021917	2.2021917
574274	6.35303E+12	5.53441E+13	5355.03	0.0186731	0.0099941	0.0722236	0.5777457	0.3092175 2.2010786	2.2010786
574274	6.35303E+12	5.53441E+13	5354.14	0.0186731	0.0113173	0.0722116	0.5777457	0.3501573 2.2007128	2.2007128
574274		5.53441E+13	5355.18	0.0186731	0.0164817	0.0722256	0.5777457	0.5099438 2.2011403	2.2011403
574274		5.53441E+13	5369.19	0.0186731	0.0138726	0.0724146	0.5777457	0.4292182 2.2068988	2.2068988
574274	6.35303E+12	5.53441E+13	5370.66	0.0212675	0.0091036	0.0724344	0.6580165	0.2816654 2.207503	2.207503
574274	6.35303E+12	5.53441E+13	5369.11	0.0212675	0.0082747	0.0724135	0.6580165	0.2560192 2.2068659	2.2068659
574274		5.53441E+13	5363.09	0.0212675	0.0151147	0.0723323	0.6580165	0.4676488 2.2043915	2.2043915
574275		5.36343E+13	5365.75	0.0212675	0.0155968	0.0746751	0.6580165	0.482565 2.2757902	2.2757902
574275		5.36343E+13	5369.99	0.0212675	0.0157182	0.0747341	0.6580165		2.2775885
574275		5.36343E+13	5367.99	0.0212675	0.0155447	0.0747063	0.6580165	0.480953 2.2767402	2.2767402
574277	6.35303E+12	5.50501E+13	5371.77	0.0212675	0.0198338	0.0728363	0.6580165	0.6136578 2.2197521	2.2197521
574279	6.35303E+12	5.54528E+13	5384.78	0.0212675	0.0190493	0.0724824	0.6580165	0,5893853 2,2089672	2.2089672
574281	6.35303E+12	5.67946E+13	5379.99	0.0212675	0.0170259	0.0707071	0.6580165	0.5267813 2.1548622	2.1548622
574281		5.67946E+13	5377.85	0.0212675	0.0169016	0.070679	0.6580165	0.5229355 2.154005	2.154005
574282		5.6096E+13	5375.53	0.0212675	0.0131463	0.0715283	0.6580165	0.4067465 2.1798898	2.1798898
574282		5.6096E+13	5379.99	0.0212675	0.0178311	0.0715877	0.6580165	0.5516942 2,1816984	2.1816984
574283		5.56063E+13	5387,53	0.0232187	0.0178063	0.0723193	0.7183866	0.5509269 2,2039945	2.2039945
574283	6.35303E+12	5.56063E+13	5405,85	0.0232187	0.0198195	0.0725652	0.7183866	0.6132153 2.211489	2.211489
574283	6.35303E+12	5.56063E+13	5409.86	0.0232187	0.019659	0.072619	0.7183866	0.6082495 2.2131295	2.2131295
574284	6.35303E+12	5.64188E+13	5401.19	0.0232187	0.020979	0.0714585	0.7183866	0,6490903 2,1777626	2.1777626
574284	6.35303E+12	5.64188E+13	5401.3	0.0232187	0.0205583	0.07146	0.7183866	0.6360738 2.1778069	2.1778069
574285	6.35303E+12	5.57835E+13	5408.19	0.0232187	0.0200525	0.072366	0.7183866	0.6204244 2.2054203	2.2054203
574285	6.35303E+12	5.57835E+13	5406.02	0.0232187	0.0204614	0.072337	0.7183866	0.6330757 2.2045354	2.2045354
574285	6.35303E+12	5.57835E+13	5400.59	0.0232187	0.0195542	0.0722643	0.7183866	0.6050069 2.202321	2.202321
574285	6.35303E+12	5.57835E+13	5401.93	0.0232187	0.0203561	0.0722823	0.7183866	0.6298177 2.2028675	2.2028675
574285	6.35303E+12	5.57835E+13	5404.01	0.0232187	0.0200873	0.0723101	0.7183866		2.2037157
574285	6.35303E+12	5.57835E+13	5401.27	0.0232187	0.0203132	0.0722734	0.7183866	0.6284904 2.2025983	2.2025983
574285	6.35303E+12	5.57835E+13	5405.56	0.0232187	0.0202868	0.0723309	0.7183866		2.2043478
574285		5.57835E+13	5407.94	0.0243161	0.0203594	0.0723627	0.7523401	0.6299198 2.2053183	2.2053183
574286		5.36818E+13	5415.78	0.0243161	0.0205197	0,0753047	0.7523401	0.6348795 2.2949778	2.2949778
574287	6.35303E+12	5.50908E+13	5406.57	0.0243161	0.0204524	0.0732539	0.7523401	0.6327973 2.2324797	2.2324797
574287		5.50908E+13	5390.94	0.0243161	0.0204571	0.0730422	0.7523401	0.6329427 2.2260258	2.2260258
574288		5.6446E+13	5374.99	0.0243161	0.0204895	0.0710776	0.7523401	0.6339451 2.1661531	2,1661531
574288	6.35303E+12	5.6446E+13	5391.07	0.0243161	0.020504	0.0712902	0.7523401	0.6343938 2.1726335	2.1726335
574289	6.35303E+12	5.61643E+13	5386.28	0,0243161	0.0215335	0.0715842	0.7523401	0.6662465 2.1815923	2.1815923
574289	6.35303E+12	5.61643E+13	5381.99	0,0243161	0.0216111	0.0715272	0.7523401	0.6686474 2.1798548	2.1798548
574289	6.35303E+12	5.61643E+13	5375.06	0.0243161	0.0210446	0.0714351	0.7523401	0.6511199 2.1770479	2.1770479
574290		5.56905E+13	5379.99	0.0243161	0.0216184	0.0721089	0.7523401	0.6688733 2.1975834	2.1975834
574292	6.35303E+12	5.59818E+13	5380.89	0.0243161	0.071687	0.0717/156	20200750		0
				10101000	000	0.01	(1.75234(1)	0.6709958 2.1865119	7 XP21 4

2.1460054	2.1534583	2.1225393	2.122177	2.1242446	2.1569462	2.5818347	6.7512101	4.7981752	5.4660368	5.3971427	6.7280701	2.0983739	2.09837	2.0794831	2.0436461	2.035759	2.0430488	2.0440552	2.0494202	2.0486608	2.0529008	2.0518464	6.5282472	2.0289892	6.9422708	1.9731924	1.9756694	1.9773378	1.989654	1.989492	1.9921839	1.9921839	1.9934764	1.9911307	1.9859827	1.9867744	1.9876655	1.9884978	1.9863178	1.9862589	2.086735	2.0855284	2.0852539	2.097283	2.1006792	2.0551695
2.1460054	2.1534583	2.1225393	2.122177	2.1242446	2.1569462	2.1287047	2.1285942	2.1248099	2.1249753	2.1376776	2.0979265	2.0983739	2.09837	2.0794831	2.0436461	2.035759	2.0430488	2.0440552	2.0494202	2.0486608	2.0529008	2.0518464	2.0504076	2.0289892	2.0185049	1.9731924	1.9756694	1.9773378	1.989654	1.989492	1.9921839	1.9921839	1.9934764	1.9911307	1.9859827	1.9867744	1.9876655	1.9884978	1.9863178	1.9862589	2.086735	2.0855284	2.0852539	2.097283	2.1006792	2.0551695
0.6583289	0.6627472	0.6627472	0.6809956	0.7859688	0.8078156	2.5818347	6.7512101	4.7981752	5.4660368	5.3971427	6.7280701	1.160052	0.8642532	0.7723769	0.7973547	0.7915999	0.9220027	0.9217274	0.9231475	0.7946908	0.8791106	0.8027692	6.5282472	0.8401974	6.9422708	1.5067378	1.1467168	0.9397221	0.8666201	0.8624556	0.8480654	0.8540987	0.8549774	0.8205071	0.8211662	0.8244272	0.816092	0.8184094	0.8227008	0.8198481	0.8178834	0.7961728	0.8363979	0.814248	0.8412586	0.9258424
0.7974599	0,7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.7974599	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.864544	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.9158921	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526	0.8942526
0.0704165	0.070661	0.0696465	0.0696346	0.0697024	0.0707755	0.0698488	0.0698452	0.069721	0.0697264	0.0701432	0.0688389	0.0688536	0.0688534	0.0682337	0.0670578	0.066799	0.0670382	0.0670712	0.0672472	0.0672223	0.0673615	0.0673269	0.0672796	0.0665768	0.0662328	0.064746	0.0648273	0.064882	0.0652861	0,0652808	0.0653692	0.0653692	0.0654116	0.0653346	0.0651657	0.0651917	0.0652209	0.0652482	0.0651767	0.0651747	0.0684716	0.0684321	0.068423	0.0688178	0.0689292	0.0674359
0.0212776	0.0214204	0.0214204	0.0220102	0.025403	0.0261091	0.0834465	0,2182033	0.15508	0.1766657	0.174439	0.2174554	0.0374936	0.0279332	0.0249637	0.025771	0.025585	0,0297997	0.0297908	0.0298367	0.0256849	0.0284134	0.025946	0.210997	0.0271557	0.2243785	0.0486987	0.0370626	0.0303724	0.0280097	0.0278751	0.02741	0.027605	0.0276334	0.0265193	0.0265406	0.026646	0.0263766	0.0264515	0.0265902	0.026498	0.0264345	0.0257328	0.0270329	0.026317	0.02719	0.0299238
0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0257744	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0279426	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0296022	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028	0.0289028
5388.44	5391.26	5389.31	5388.39	5393.64	5395.3	5391.27	5390.99	5394.98	5395.4	5395.01	5392.45	5393.6	5393.59	5393.1	5397.01	5396.18	5399.99	5402.65	5397.01	5395.01	5393.25	5390.48	5386.7	5387.76	5392.75	5393.01	5399.78	5404.34	5403.12	5402.68	5409.99	5409.99	5413.5	5407.13	5393.15	5395.3	5397.72	5399,98	5394.06	5393.9	5396.06	5392.94	5392.23	5397.35	5406.09	5402.76
5.71185E+13	5.69506E+13	5.77593E+13	5,77593E+13	5.77593E+13	5.69012E+13	5.7613E+13	5.7613E+13	5.77583E+13	5.77583E+13	5.7411E+13	5.8471E+13	5.8471E+13	5.8471E+13	5.89967E+13	6.00748E+13	6.02983E+13	6.01255E+13	6.01255E+13	5.99055E+13	5.99055E+13	5.97623E+13	5.97623E+13	5.97623E+13	6.04051E+13	6.0775E+13	6.21737E+13	6.21737E+13	6.21737E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	5.8824E+13	5.8824E+13	5.8824E+13	5.85421E+13	5.85421E+13	5.98016E+13
	5 6.35303E+12	3 6.35303E+12	3 6,35303E+12	3 6.35303E+12	9 6.35303E+12	1 6.35303E+12	1 6.35303E+12	2 6.35303E+12	2 6.35303E+12	4 6.35303E+12	5 6.35303E+12	5 6.35303E+12	5 6.35303E+12	7 6.35303E+12	9 6.35303E+12	0 6.35303E+12	1 6,35303E+12	1 6.35303E+12	2 6.35303E+12	2 6.35303E+12	5 6.35303E+12	5 6.35303E+12	5 6.35303E+12	7 6.35303E+12	9 6.35303E+12	0 6.35303E+12	0 6.35303E+12	0 6.35303E+12	1 6.35303E+12	I 6.35303E+12	1 6.35303E+12	1 6.35303E+12		1 6.35303E+12	1 6.35303E+12		1 6.35303E+12	1 6.35303E+12	1 6.35303E+12	1 6.35303E+12	2 6.35303E+12	2 6.35303E+12	2 6.35303E+12	3 6.35303E+12	3 6.35303E+12	5 6.35303E+12
574295	574296	574298	574298	574298	574299	574301	574301	574302	574302	574304	574305	574305	574305	574307	574309	574310	574311	574311	574312	574312	574315	574315	574315	574317	574319	574320	574320	574320	574321	574321	574321	574321	574321	574321	574321	574321	574321	574321	574321	574321	574322	574322	574322	574323	574323	574326
05:17.2	10:20.9	15:24.1	20:27.3	25;31.0	30:34.5	35:39.5	40:44.8	45:49.0	50:52.9	55:56.9	01:01.0	06:05.1	11:09.9	16:13.3	21:16.3	26:19.2	31:22.5	36:25.4	41:28.4	46:31.4	51:34.4	56:37.4	01:41.6	06:46.0	11:50.0	16:54.3	21:59.4	27:02.3	32:05.3	37:08.3	42:11.3	47:14.3	52:17.2	57:20.0	02:23.3	07:26.3	12:29.4	17:32.5	22:35.6	27:38.6	32:41.7	37:45.1	42:48.3	47:51.7	52:54.6	57:58.1

03:01:0	0.33303E+12	3.30UIDE+13	0403,10	0.0298595	0.0354935	0.06/4658	0.9238529	1.0981689 2.0560824	2.0560824
574376	6 35303E+12	S OSO16E113	5400 27	משפטנטיט	3366000	0101100	00000		1
574327		5.96067F+13	5403.01	0.0798595	0.0203303	0.0676595	0.30550		2.0542223
574327	6.35303E+12	5.96067F+13	5402 55	0.0298595	0.0272184	753550	0.39550	0.84213/3 2.0619836	2.0619836
574328	6.35303E+12	5.96752E+13	5405.49	0.0798595	CC6920.0	0.0676129	0.938579	U./885368 2.U618U8	2.061808
574328		5.96752E+13	5407.99	0.0298595	0.0266884	0.0676442	0.9238529		2.0803842
574329	6.35303E+12	5.94855E+13	5414.16	0.0298595	0.0268196	0.0679373	0.9238529		2.0704516
574330	6.35303E+12	5.97035E+13	5414.16	0.0298595	0.0268326	0.0676893	0.9238529	185	2.0628912
574331	6.35303E+12	5.96567E+13	5411.77	0.0298595	0.0255719	0.0677124	0.9238529	0.7911946 2.0635973	2.0635973
574332	6.35303E+12	5.93593E+13	5409.61	0.0298595	0.0266704	0.0680245	0.9238529	0.8251822 2.0731087	2.0731087
574333	6.35303E+12	5.9734E+13	5404.43	0.0298595	0.0266612	0.0675331	0.9238529	0.8248975 2.0581326	2.0581326
574334	6.35303E+12	5.92562E+13	5401.16	0.0298595	0.0269553	0.0680365	0.9238529	0.833997 2.0734727	2.0734727
574335	6.35303E+12	5.9018E+13	5401.4	0.028602	0.0279105	0.0683141	0.8849459	0.8635509 2.0819329	2.0819329
574335		5.9018E+13	5400,05	0.028602	0.0267242	0.068297	0.8849459	0.8268467 2.0814126	2.0814126
574337		6.04407E+13	5403,81	0.028602	0.0267657	0.0667358	0.8849459	0.8281308 2.0338321	2.0338321
574338	6.35303E+12	6,00814E+13	5403.9	0.028602	0.026525	0.067136	0.8849459	0.8206835 2.0460298	2.0460298
574341	6.35303E+12	6,05704E+13	5404.02	0.028602	0.026048	0.0665954	0.8849459	0.8059251 2.0295562	2.0295562
574342	6.35303E+12	6.0482E+13	5406.89	0.028602	0.0265109	0.0667282	0.8849459	0.8202472 2.0336015	2.0336015
574343		5.99395E+13	5402.19	0.028602	0.0255512	0.0672736	0.8849459	0.7905541 2.0502238	2.0502238
574343		5.99395E+13	5399.98	0.028602	0.0262086	0,0672461	0.8849459	0.8108941 2.0493851	2.0493851
574344	6.35303E+12	5.95861E+13	5399.01	0.028602	0.0260242	0.0676328	0.8849459	0.8051887 2.0611697	2.0611697
574344	6.35303E+12	5,95861E+13	5394.85	0.028602	0.0266401	0.0675807	0.8849459	0.8242447 2.0595816	2.0595816
574344	6.35303E+12	5.95861E+13	5401.23	0.028602	0.0260209	0.0676606	0.8849459	0.8050866 2.0620172	2.0620172
574344	6.35303E+12	5.95861E+13	5398.44	0.028602	0.0262469	0.0676256	0.8849459	0.8120791 2.0609521	2.0609521
574346	6.35303E+12	5.84022E+13	5394,51	0.0275993	0.2233023	0.0689463	0.8539223	6.9089732 2.1012014	6.9089732
574347	6.35303E+12	5.86008E+13	5390.6	0.0275993	0.0264187	0.0686629	0.8539223	0.8173946 2.0925629	2.0925629
574347	6.35303E+12	5.86008E+13	5397.94	0.0275993	0.0265111	0.0687564	0.8539223	0.8202534 2.0954122	2.0954122
574348		5.87322E+13	5396.99	0.0275993	0.0266306	0.0685905	0.8539223		2,0903567
574348		5.87322E+13	5396.21	0.0275993	0.026318	0.0685806	0.8539223	0.8142789 2.0900545	2.0900545
574349	6.35303E+12	5.84595E+13	5396,31	0.0275993	0.2222834	0.0689017	0.8539223	6.8774484 2.0998406	6.8774484
574350	6.35303E+12	5.91267E+13	5395.07	0.0275993	0.0360184	0.0681086	0.8539223	1.1144093 2.07567	2.07567
574350	6.35303E+12	5.91267E+13	5395,47	0.0275993	0.026792	0.0681136	0.8539223	0.8289445 2.0758239	2.0758239
574351	6.35303E+12	5.92508E+13	5395.05	0.0275993	0.0245607	0.0679657	0.8539223	0.7599081 2.0713145	2.0713145
574351	6.35303E+12	5.92508E+13	5393,06	0.0275993	0.0251914	0.0679406	0.8539223		2.0705505
574351	6.35303E+12	5.92508E+13	5391.73	0.0275993	0.0244349	0.0679238	0.8539223	0.7560158 2.0700399	2.0700399
574351	6.35303E+12	5.92508E+13	5391.02	0.0287438	0.0246767	0.0679149	0.8893332	0.7634971 2.0697673	2.0697673
574351	6.35303E+12	5.92508E+13	5365.12	0.0287438	0.0247456	0.0675886	0.8893332	0.7656289 2.0598235	2.0598235
574351	6.35303E+12	5.92508E+13	5371.89	0.0287438	0.0222708	0.0676739	0.8893332	0.6890586 2.0624227	2.0624227
574351		5.92508E+13	5379.7	0.0287438	0.0239242	0.0677723	0.8893332	0.7402147 2.0654212	2.0654212
574353		5.95341E+13	5378.3	0.0287438	0.0226519	0.0674322	0.8893332	0.7008498 2.0550568	2.0550568
574353	6.35303E+12	5.95341E+13	5381.03	0.0287438	0.0245188	0.0674664	0.8893332	0.7586117 2.0560999	2.0560999
574353	6.35303E+12	5.95341E+13	5392.25	0.0287438	0.024939	0.0676071	0.8893332	0.7716127 2.0603871	2.0603871
574353	6.35303E+12	5.95341E+13	5394.16	0.0287438	0.0248882	0.067631	0.8893332	0.7700409 2.0611169	2.0611169
574353	6.35303E+12	5.95341E+13	5399.99	0.0287438	0.0245715	0.0677041	0.8893332	0.7602422 2.0633446	2.0633446
574355	6.35303E+12	6.01266E+13	5396.88	0.0287438	0.0230276	0.0669983	0.8893332	0.7124739 2.0418346	2.0418346
574356	6.35303E+12	6.01278E+13	5394.77	0.0287438	0.0244562	0.0669709	0.8893332	0.7566748 2.0409989	2.0409989
574356	5 35 30 5 1 1 3	-		1 1 1 1 1 1					

00:45.1		6.35303E+12	5.98782E+13	5408.98	0.0349099	0.0215159	0.0674272	1.0801123	0.6657019 2.	2.0549051	2.0549051
05:48.5	574357 6	6.35303E+12	5.98782E+13	5415.88	0.0349099	0.021311	0.0675132	1.0801123	0.6593623 2.	2.0575264	2.0575264
10:51.8	574359 6	6.35303E+12	5.99023E+13	5413.47	0.0349099	0.0215195	0.067456	1.0801123	0.6658133 2.	2.0557835	2.0557835
15:54.9	574359 6	6.35303E+12	5.99023E+13	5409.99	0.0349099	0.0216145	0.0674127	1.0801123	0.6687526 2.	2.0544619	2.0544619
20:57.9	574360 6	6.35303E+12	6.0023E+13	5408.83	0.0349099	0.0224358	0.0672626	1.0801123	0.6941637	2.049888	2.049888
26:01.1	574360 6	6,35303E+12	6.0023E+13	5402.81	0.0349099	0.0221931	0.0671877	1.0801123	0.6866545 2.	2.0476064	2.0476064
31:04.4	574361 6	6.35303E+12	5.95038E+13	5407.93	0.0349099	0.024178	0.0678382	1.0801123	0.7480673 2.	2.0674304	2.0674304
36:08.0	574361 6	6.35303E+12	5.95038E+13	5411.14	0.0349099	0.0353979	0.0678785	1.0801123	1.095211 2.	2.0686576	2.0686576
41:11.6	574362 6	6.35303E+12	5.87448E+13	5422.09	0.0349099	0.0235493	0.0688946	1.0801123	0.7286153 2.	2.0996263	2.0996263
46:14.8	574362 6	6.35303E+12	5.87448E+13	5435.74	0.0349099	0.0221814	0.0690681	1.0801123	0.6862925 2.	2.1049121	2.1049121
51:17.9	574362 6	6.35303E+12	5.87448E+13	5435.55	0.0349099	0.0237741	0.0690657	1.0801123	0.7355707 2.	2.1048385	2.1048385
56:21.6	574363 6	6.35303E+12	5.80502E+13	5427.15	0.0349099	0.032206	0.0697841	1.0801123	0.9964536 2.	2.1267343	2.1267343
01:24.7	574363 6	6.35303E+12	5.80502E+13	5428.1	0.0262015	0.0475413	0.0697964	0.8106744	1.4709278 2.	2.1271066	2.1271066
06:27.9	574364 6	6.35303E+12	5.78645E+13	5441.31	0.0262015	0.0428348	0.0701907	0.8106744	1.3253087 2.	2.1391255	2.1391255
11:31.0	574364 6	6.35303E+12	5.78645E+13	5428.95	0.0262015	0.0240965	0.0700313	0.8106744	0.7455457 2.	2.1342664	2.1342664
16:33.9	574367 6	6.35303E+12	5.84533E+13	5433.35	0.0262015	0.0244572	0.069382	0.8106744	0.7567058 2.	2.1144803	2.1144803
21:38.4	574367 6	6.35303E+12	5.84533E+13	5439.23	0.0262015	0.022965	0.0694571	0.8106744	0.7105371 2.	2.1167686	2.1167686
26:41.8	574368 6	6.35303E+12	5.81378E+13	5433.99	0.0262015	0.0212901	0.0697668	0.8106744	0.6587157 2.	2.1262058	2.1262058
31:45.4	574368 6	6.35303E+12	5.81378E+13	5446.09	0.0262015	0.0209848	0.0699221	0.8106744	0.6492697 2.	2.1309403	2.1309403
36:48.4		6.35303E+12	5.7527E+13	5440.51	0.0262015	0.0204925	0.0705922	0.8106744	0.634038 2.	2.1513595	2,1513595
41:51.9	574370 6	6.35303E+12	5.73316E+13	5442,44	0.0262015	0.0198587	0.0708579	0.8106744	0.6144282 2.	2.1594579	2.1594579
46:55.1	574370 6	6.35303E+12	5.73316E+13	5449.99	0.0262015	0.0197845	0.0709562	0.8106744	0.6121324 2.	2.1624536	2.1624536
51:58.4	574370 6	6.35303E+12	5.73316E+13	5458.76	0.0262015	0.0194401	0.0710704	0.8106744	0.6014767 2.	2.1659334	2.1659334
57:01.5	574373 6	6.35303E+12	5.75391E+13	5466.97	0.0262015	0.0197032	0.0709205	0.8106744	0.609617 2.	2.1613669	2.1613669
02:02:0	574373 6	6.35303E+12	5.75391E+13	5466.18	0.0202338	0.0193913	0.0709103	0.6260338	0.5999668 2.	2.1610546	2,1610546
07:08.3		6.35303E+12	5.75391E+13	5468.2	0.0202338	0.0191518	0.0709365	0.6260338	0,5925567 2.	2.1618532	2.1618532
12:11.9	574374 6	6.35303E+12	5.70787E+13	5462.25	0.0202338	0.0195416	0.0714308	0.6260338	0.6046171 2.	2.1769189	2.1769189
17:14.8		6.35303E+12	5.67247E+13	5457.72	0.0202338	0.0192754	0.071817	0.6260338	0.5963809 2.	2.1886876	2.1886876
22:17.9	574376 6	6.35303E+12	5.68162E+13	5459.27	0.0202338	0.0212199	0.0717217	0.6260338	0.6565437	2.185782	2.185782
27:21.2		6.35303E+12	5.68162E+13	5455.91	0.0202338	0.0193854	0.0716775	0.6260338	0.5997843 2.	2.1844367	2.1844367
32:24.1	574377 6	6.35303E+12	5.63276E+13	5454.55	0.0202338	0.0196209	0.0722814	0.6260338	0.6070706 2.	2.2028394	2.2028394
37:27.2	574377 6	6.35303E+12	5.63276E+13	5461.19	0.0202338	0.0218394	0.0723693	0.6260338	0.675711	2,205521	2.205521
42:30.2		6.35303E+12	5.63276E+13	5464.3	0.0202338	0.0211972	0.0724106	0.6260338	0.6558414	2.206777	2.206777
47:33.3		6.35303E+12	5.65074E+13	5471.12	0.0202338	0.0212136	0.0722702	0.6260338	0.6563488 2.	2.2024995	2.2024995
52:36.4		6.35303E+12	5.65074E+13	5465.8	0.0202338	0.0207927	0.0721999	0.6260338	0.6433261 2.	2.2003578	2.2003578
57:39.3		6.35303E+12	5.65074E+13	5467.45	0.0202338	0.0196864	0.0722217	0.6260338	0.6090972 2.	2.2010221	2.2010221
03:12.6		6.35303E+12	5.72964E+13	5476.66	0.0174418	0.0187668	0.0713471	0.5396493		2.1743674	2.1743674
08:16.0		6.35303E+12	5.65611E+13	5472.78	0.0174418	0.0187175	0.0722235	0.5396493		2.2010766	2.2010766
13:19.1	574384 6	6.35303E+12	5.65611E+13	5477.51	0.0174418	0.0187832	0.0722859	0.5396493	0.5811522 2.	2.2029789	2.2029789
18:22.2	574384 6	6.35303E+12	5.65611E+13	5475.27	0.0174418	0.0184439	0.0722564	0.5396493	0.5706543	2.202078	2.202078
23:25.4		6.35303E+12	5.65611E+13	5485.01	0.0174418	0.0182748	0.0723849	0.5396493		2.2059953	2,2059953
28:28.7	574385 6	6.35303E+12	5.52675E+13	5483.01	0.0174418	0.0178749	0.0740521	0.5396493	0.5530494 2.	2.2568058	2.2568058
33:31.7	574386 6	6.35303E+12	5.5002E+13	5486.59	0.0174418	0.0182033	0.0744582	0.5396493		2.2691808	2.2691808
38:35.5	574386 6	6.35303E+12	5.5002E+13	5489.7	0.0174418	0.0186322	0.0745004	0.5396493	0.5764803	2.270467	2.270467
43:38.3		6.35303E+12	5.4816E+13	5485.01	0.0174418	0.0182313	0.0746893	0.5396493	0.5640764 2.	2.2762247	2.2762247
48:41.2	2	6.35303E+12	5.4816E+13	5494.56	0.0174418	0.0183895	0.0748194	0.5396493	, ,		2.2801879
53:45.0	574387 6	6.35303E+12	5.4816E+13	5496.86	0.0174418	0.0183358	0.0748507	0.5396493	0.5673097 2.	2.2811424	2,2811424

58:48.0	574388	6.35303E+12	5.41076F+13	5491 71	0.0174418	0.0183548	0.0757595	0 5306/03	. 2200733 0	20000000	7000000
03:51.1	574388		5.41076E+13	5493.27	0.0165491	0.0183691	0.0757811	0.5120292		2.3094963	2.3088403
08:54.1	574388	6.35303E+12	5.41076E+13	5497.61	0.0165491	0.0183647	0.0758409	0.5120292		2.311321	2.311321
13:57.4	574390	6.35303E+12	5.36713E+13	5491.93	0.0165491	0.0183673	0.0763785	0.5120292		2.3277048	2.3277048
19:00.7	574393	6.35303E+12	5.4543E+13	5502.77	0.0165491	0.0188417	0.0753062	0.5120292	0.5829622	2.2950255	2.2950255
24:04.5	574393	6.35303E+12	5.4543E+13	5525,72	0.0165491	0.0193995	0.0756203	0.5120292	0.6002205	2.3045972	2.3045972
29:07.6	574393	6.35303E+12	5.4543E+13	5538.58	0.0165491	0.0193609	0.0757963	0.5120292	0.5990262	2.3099607	2.3099607
34:10.9	574393	6.35303E+12	5.4543E+13	5548.77	0.0165491	0.019547	0.0759358	0.5120292	0.6047842	2.3142106	2.3142106
39:14.1	574394	6.35303E+12	5.38779E+13	5544.99	0.0165491	0.0195134	0.0768207	0.5120292	0.6037446	2.3411795	2.3411795
44:17.1	574395	6.35303E+12	5.53825E+13	5512.91	0.0165491	0.0198083	0.0743014	0.5120292	0.6128688	2.2644017	2.2644017
49:20.1	574395	6.35303E+12	5.53825E+13	5524.53	0.0165491	0.0195319	0.074458	0.5120292	0.604317	2.2691746	2.2691746
54:23.3	574395	6.35303E+12	5.53825E+13	5525.3	0.0165491	0.01959	0.0744684	0.5120292	0.6061146	2.2694909	2.2694909
59:26.3	574395	6.35303E+12	5.53825E+13	5519.06	0.0165491	0.0192502	0.0743843	0.5120292	0.5956012	2.2669278	2.2669278
04:29.4	574395	6.35303E+12	5.53825E+13	5533.7	0.0172292	0.0192508	0.0745816	0.5330714	0.5956198	2.2729411	2.2729411
09:32.4	574395	6.35303E+12	5.53825E+13	5530.29	0.0172292	0.0191812	0.0745356	0.5330714	0.5934663	2.2715405	2.2715405
14:35.9	574396	6.35303E+12	5.44713E+13	5534.64	0.0172292	0.0190064	0.0758421	0.5330714	0.588058	2.3113551	2.3113551
19:39.0	574396	6.35303E+12	5.44713E+13	5544.31	0.0172292	0.0189667	0.0759746	0.5330714	0.5868297	2.3153934	2.3153934
24:42.5	574396	6.35303E+12	5.44713E+13	5549.76	0.0172292	0.0190067	0.0760493	0.5330714	0.5880673	2.3176694	2.3176694
29:46.0	574397	6.35303E+12	5,38389E+13	5535.92	0.0172292	0.0190806	0.0767506	0.5330714	0.5903538	2.3390422	2.3390422
34:48.9	574397	6.35303E+12	5,38389E+13	5548.11	0.0172292	0.0187167	0.0769196	0.5330714	0.5790947	2.3441927	2.3441927
39:52.5	574397	6.35303E+12	5.38389E+13	5576.84	0.0172292	0.0189742	0.0773179	0.5330714	0.5870617	2.3563317	2.3563317
44:55.6	574397	6.35303E+12	5.38389E+13	5588.49	0.0172292	0.0188554	0.0774794	0.5330714	0.5833861	2.3612541	2.3612541
49:58.8	574397	6.35303E+12	5.38389E+13	5580.14	0.0172292	0.0189482	0.0773636	0.5330714	0.5862573	2.3577261	2.3577261
55:01.8	574397		5.38389E+13	5586.36	0.0172292	0.0194129	0.0774499	0.5330714	0.6006351	2.3603541	2.3603541
00:05.2	574398		5.24135E+13	5582.24	0.0174125	0.0194554	0.0794975	0.5387428	0.6019501	2.422758	2,422758
05:09.1	574399	6.35303E+12	5.22154E+13	5575.01	0.0174125	0.0197929	0.0796957	0.5387428	0.6123923	2.4287994	2.4287994
10:12.1	574400	6.35303E+12	5.19602E+13	5555.62	0.0174125	0.0199592	0.0798086	0.5387428	0.6175376	2.4322397	2.4322397
15:15.6	574400	6.35303E+12	5.19602E+13	5578.34	0.0174125	0.0198711	0.080135	0.5387428	0.6148118	2.4421865	2.4421865
20:18.5	574400	6.35303E+12	5.19602E+13	5579.19	0.0174125	0.0198617	0.0801472	0.5387428	0.614521	2.4425586	2.4425586
25:21.5	574401	6.35303E+12	5.14241E+13	5571.72	0.0174125	0.0200228	0.0808744	0.5387428	0.6195054	2.4647197	2.4647197
30:24.5	574401	6.35303E+12	5.14241E+13	5570.27	0.0174125	0.0199827	0.0808533	0.5387428	0.6182647	2.4640783	2.4640783
35:27.4	574402	6.35303E+12	5.15991E+13	5586.79	0.0174125	0.0207606	0.080818	0.5387428	0.642333	2.4630024	2.4630024
40:30.4	574403	6.35303E+12	5.16659E+13	5618.48	0.0174125	0.0202218	0.0811714	0.5387428	0.6256625	2.4737726	2.4737726
45:33.7	574404		5.22163E+13	5610.56	0.0174125	0.0221828	0.0802027	0.5387428	0.6863358	2.444248	2.444248
50:36.6	574405		5.26766E+13	5659.03	0.0174125	0.0202739	0.0801886	0.5387428		2.4438195	2.4438195
55:39.5	574406		5,44332E+13	5660,39	0.0174125	0.0201747	0.0776194	0.5387428	0.6242052	2.365522	2.365522
00:42.4	574407		5,44179E+13	5674.28	0.0182174	0.0190667	0.0778319	0.5636464	0.5899237	2.3719968	2.3719968
05:45.2	574408		5.43366E+13	5665.31	0.0182174	0.0196886	0.0778251	0.5636464	0.6091653	2.3717894	2.3717894
10:47.9	574408	6.35303E+12	5.43366E+13	5669.02	0.0182174	0.0199558	0.077876	0.5636464	0.6174325	2.3733426	2.3733426
15:50.8	574409	6.35303E+12	5.45039E+13	5707.81	0.0182174	0.0201714	0.0781682	0.5636464	0.6241031	2.3822461	2.3822461
20:53.8	574409	6.35303E+12	5.45039E+13	5687.02	0.0182174	0.0225138	0.0778835	0.5636464	0.696577	2.3735691	2.3735691
25:56.9	574410	6.35303E+12	5.4739E+13	5681.9	0.0182174	0.0207126	0.0774792	0.5636464	0.6408478	2.3612479	2.3612479
36:03.0	574410	6.35303E+12	5.4739E+13	5722.07	0.0182174	0.0216808	0.0780269	0.5636464	0.670804	2.3779415	2.3779415
41:06.3	574410	6.35303E+12	5.4739E+13	5722.31	0.0182174	0.0214058	0.0780302	0.5636464	0.6622955	2.3780413	2.3780413
46:09.6	574410	6.35303E+12	5.4739E+13	5758.38	0.0182174	0.0229584	0.0785221	0.5636464	0.7103329	2.393031	2.393031
51:12.9	574410	6.35303E+12	5.4739E+13	5752.53	0.0182174	0.0234792	0.0784423	0.5636464	0.7264464	2.3905999	2.3905999
01:18.1	574412	6.35303E+12	5.33495E+13	5778.34	0.0231716	0,024996	0.0808465	0.7169293	0.7733762	2.46387	2.46387

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574443 6.35303E+12 5.28228E+13 5735.16 C	u)	u	0	0.0298497	0.0255622	0.0810425	0.9235497	0.7908945 2.4698426	2.4698426
5746.65 0	3E+13 5746.65 0	5746.65 0	0	.0298497	0.0244251	0.0812048	0.9235497		2.4747908
574443 6.35303E+12 5.28228E+13 5760.39 0	3E+13 5	ш	0	.0298497	0.0246582	0.081399	0.9235497	0.7629247 2.4807079	2.4807079
574443 6.35303E+12 5.28228E+13 5759.7 C	8E+13	5759.7	Q	0.0298497	0.0249722	0.0813893	0.9235497	0.7726399 2.4804107	2.4804107
6.35303E+12 5	7E+13 5	5763.19	_	0.0298497	0.0248231	0.0824975	0.9235497	0.7680267 2.5141848	2.5141848
6.35303E+12 5	5E+13 5	5756.99		0.0298497	0.0277305	0.0827709	0.9235497	0.8579817 2.5225189	2.5225189
6,35303E+12 S	3E+13 5	5752.55		0.0298497	0.0341344	0.0830402	0.9235497	1.0561183 2.5307244	2.5307244
6.35303E+12 5	3E+13 5	5759.01		0.0298497	0.026299	0.0831334	0.9235497	0.8136911 2.5335664	2.5335664
6.35303E+12	5E+13 5	5756.94		0.0298497	0.0264755	0.0834907	0.9235497	0.819152 2.5444543	2.5444543
6.35303E+12	E+13 5	5733.43		0.0298497	0.0263969	0.0823773	0.9235497	0.8167201 2.5105227	2.5105227
6.35303E+12 5.19511E+13	LE+13 5	5719.45		0.0298497	0.0296594	0.0821764	0.9235497	0.9176618 2.5044012	2.5044012
6.35303E+12 5	E+13	5694.51		0.0289776	0.0266675	0.0818181	0.8965669	0.8250925 2.4934806	2,4934806
6.35303E+12 5.17328E+13 5	3E+13	59.6695		0.0289776	0.0248567	0.0822376	0.8965669	0.7690663 2.5062642	2.5062642
6.35303E+12 5.16724E+13	1E+13	5715.01		0.0289776	0.0254265	0.0825556	0.8965669	0.7866959 2.5159564	2.5159564
6.35303E+12 5,16724E+13 5	E+13	5715.01		0.0289776	0.0257899	0.0825556	0.8965669	0.7979395 2.5159564	2.5159564
6.35303E+12 5.16724E+13	1E+13	5711.26		0.0289776	0.0254494	0.0825014	0.8965669	0.7874044 2.5143055	2.5143055
6.35303E+12 5.16724E+13 5	1E+13 5	5720.49		0.0289776	0.0255463	0.0826348	0.8965669	0.7904025 2.5183689	2.5183689
6.35303E+12 5.16724E+13 5	4E+13 5	5725.31		0.0289776	0.0252955	0.0827044	0.8965669	0.7826428 2.5204908	2.5204908
6.35303E+12 5	1E+13 5	5725.01		0.0289776	0.0258846	0.0838198	0.8965669	0.8008695 2.5544843	2.5544843
6.35303E+12 5.1192	5E+13 5	5714.05		0.0289776	0.0259942	0.0833155	0.8965669	0.8042605 2.5391139	2.5391139
6.35303E+12 5.1192	5E+13 5	5706.05		0.0289776	0.0248507	0.0831988	0.8965669	0.7688807 2.535559	2.535559
574454 6.35303E+12 5.11925E+13 5709.99	5E+13 5	5709.99		0.0289776	0.0240952	0.0832563	0.8965669	0.7455055 2.5373098	2.5373098
574454 6.35303E+12 5.11925E+13 5714.98	5E+13 5	5714.98		0.0289776	0.0237491	0.083329	0.8965669	0.7347972 2.5395272	2.5395272
5E+13	5E+13	5715.01		0.0314491	0.0249024	0.0833295	0.9730352	0.7704803 2.5395405	2.5395405
574454 6.35303E+12 5.11925E+13 5705.02	5E+13	5705.02		0.0314491	0.0238843	0.0831838	0.9730352	0.7389802 2.5351013	2.5351013

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2.2480786	2.2480744	2.2480617	2.2820313	2.2806129	2.2251767	2.2251893	2.2452223	2.2441815	2.2659373	2.2656139	2.2689395	2.2689395	2.2595592	2.1855639	2.1962672	2.1668382	2.1668382	2.1682995	2.1682995	2.1864882	2.187116	2.1667245	2.1666774	2.1710246	2.1684142	2.1649441	2.1785089	2.1787132	2.1833549	2.2004762	2.1688293	2.1730133	2.1738558	2.1978165	2.2000077	2.2138627	2.2132209	2.2132168	2.2221538	2.2249606	2.2308695	2.2282664	2.2302208	2.283406	2.502.10
2.2480786	2.2480744	2.2480617	2.2820313	2.2806129	2.2251767	2.2251893	2.2452223	2.2441815	2.2659373	2.2656139	2.2689395	2.2689395	2.2595592	2.1855639	2.1962672	2.1668382	2.1668382	2.1682995	2.1682995	2.1864882	2,187116	2.1667245	2.1666774	2.1710246	2.1684142	2.1649441	2.1785089	2.1787132	2.1833549	2.2004762	2.1688293	2.1730133	2.1738558	2.1978165	2.2000077	2.2138627	2.2132209	2.2132168	2.2221538	2.2249606	2.2308695	2.2282664	2.2302208	2.283406	200100
5320.02 0.0062116 0.0053108 0.0737658 0.1921869 0.1643162	0.1978737	0.2003953	0.1552507	0,1181351	0.167899	0.2373624	0.0364349	0.0850077	-0.1026373	-0.2584109	0.0309462	0.0399435	-0.5913531	-0.9839353	-0.9577539	-0.9386206	-0.8310577	-0.971813	-1.0007048	-0.9710767	-0.0913627	-0.592368	-0.5413262	-0.8581302	-0.9375903	-0.8126917	-0.5964335	-0.6140724	-0.6035899	-0.9076063	-0.7317898	-0.5789895	-0.9565039	-0.9404089	-0.9377233	-0.871258	-0.8760444	-0.837518	-0.8518494	-0.8512244	-0.8975972	-0.8743768	-0.8209805	-0.8202194	0.02020
0.1921869	0.1921869	0.1921869	0.1921869	0.1921869	0.1921869	0.1921869	0.1921869	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0360234	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0164879	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0134125	0.0940762	1
0.0737658	0.0737656	0.0737652	0.0748799	0.0748333	0.0730143	0.0730147	0.0736721	0.0736379	0.0743518	0.0743412	0.0744503	0.0744503	0.0741425	0.0717145	0.0720657	0.0711001	0.0711001	0.071148	0.071148	0.0717448	0.0717654	0.0710963	0.0710948	0.0712374	0.0711518	0.0710379	0.071483	0.0714897	0.071642	0.0722038	0.0711654	0.0713027	0.0713303	0.0721165	0.0721884	0.0726431	0.072622	0.0726219	0.0729151	0.0730072	0.0732011	0.0731157	0.0731798	0.074925	111111111111111111111111111111111111111
0.0053108	0.0063954	0.0064769	0.0050178	0.0038182	0.0054266	0.0076717	0.0011776	0.0027475	-0.0033173	-0.008352	0.0010002	0.001291	-0.0191129	-0.0318014	-0.0309552	-0.0303368	-0.0268603	-0.0314096	-0.0323434	-0.0313858	-0.0029529	-0.0191457	-0.017496	-0.0277353	-0.0303035	-0.0262667	-0.0192771	-0.0198472	-0.0195084	-0.0293344	-0.0236519	-0.0187133	-0.0309148	-0.0303946	-0.0303078	-0.0281596	-0.0283143	-0.0270691	-0.0275323	-0.0275121	-0.0290109	-0.0282604	-0.0265346	-0.02651	1
0.0062116	0.0062116	0.0062116	0.0062116	0.0062116	0.0062116	0.0062116	0.0062116	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0011643	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0005329	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0004335	0.0030406	
5320.02	5320.01	5319.98	5325.25	5321.94	5326.51	5326.54	5328.24	5325.77	5325.77	5325.01	5321.01	5321.01	5326.26	5327.73	5321.02	5323.1	5323.1	5326.69	5326.69	5328.81	5330.34	5326.73	5332.99	5343.69	5336.9	5333.74	5331.57	5332.07	5343.43	5343.99	5328.81	5339.09	5341.16	5346.19	5351.52	5346.91	5345.36	5345.35	5343.98	5350.73	5364.94	5358.68	5363.38	5374.99	
5.38327E+13	5.38327E+13	5.38327E+13	5.30839E+13	5.30839E+13	5.44532E+13	5.44532E+13	5.39845E+13	5.39845E+13	5.34662E+13	5.34662E+13	5.33477E+13	5.33477E+13	5.36221E+13	5.54528E+13	5.51131E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.54406E+13	5.54406E+13	5.59245E+13	5.59914E+13	5.59914E+13	5.59876E+13	5,60441E+13	5.56725E+13	5.56725E+13	5.56725E+13	5.52451E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.53347E+13	5.53347E+13	5.49411E+13	5,49411E+13	5.49411E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.35475E+13	The same of the sa
4 6.35303E+12	4 6.35303E+12	4 6.35303E+12	5 6.35303E+12	5 6.35303E+12	5 6.35303E+12	5 6.35303E+12	7 6.35303E+12		3 6.35303E+12	3 6.35303E+12	9 6.35303E+12	9 6.35303E+12	0 6.35303E+12	2 6.35303E+12	3 6.35303E+12	5 6.35303E+12	9 6.35303E+12	0 6.35303E+12	0 6.35303E+12				7 6.35303E+12									L 6.35303E+12	L 6.35303E+12	2 6.35303E+12	8 6.35303E+12										
574204	574204	574204	574205	574205	574206	574206	574207	574207	574208	574208	574209	574209	574210	574212	574213	574215	574215	574215	574215	574216	574216	574219	574220	574220	574225	574226	574227	574227	574227	574228	574229	574229	574229	574230	574230	574231	574231	574231	574232	574232	574232	574232	574232	574233	0.000
20:03.1	25:07.0	30:10.6	35:13.6	40:16.4	45:19.2	50:22.3	55:26.0	00:29.0	05:31.8	10:34.6	15:37.4	20:40.3	25:43.5	30:46.5	35:49.4	40:52.8	45:56.2	50:59.1	56:02.0	01:05.0	0.80:90	11:11.1	16:14.0	21:16.9	26:20.3	31:23.1	36:26.0	41:28.9	46:31.8	51:34.6	56:37.6	01:40.7	06:43.9	11:46.8	16:50.5	21:53.4	26:56.3	31:59.3	37:02.5	42:05.7	47:08.6	52:11.5	57:14.5	02:17.5	1

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2.2789921	2.2798757	2.2930408	2.2927926	2.2891597	2.3094528	2.2966332	2.3114455	2.308573	2.3118566	2.3046947	2.3152833	2.2753498	2.2759407	2.2635674	2.2504797	2.2518446	2.2530793	2.2724742	2.2432526	2.2066234	2.2138427	2.2155367	4.9731595	2.1941337	2.1774367	2.1821286	2.182771	2.182397	2.1729618	2.1711281	2.1711281	2.1734597	2.1733221	2.1700634	2.170108	2.2339708	2.2356489	2.2347162	2.2352492	2.2751678	2.2747821	2.2741038	2.2740572	2.2798013	2 2488057
2.2789921	2.2798757	2.2930408	2.2927926	2.2891597	2.3094528	2.2966332	2.3114455	2.308573	2.3118566	2.3046947	2.3152833	2.2753498	2.2759407	2.2635674	2.2504797	2.2518446	2.2530793	2.2724742	2.2432526	2.2066234	2.2138427	2.2155367	2.195957	2.1941337	2.1774367	2.1821286	2.182771	2.182397	2.1729618	2.1711281	2.1711281	2.1734597	2.1733221	2.1700634	2.170108	2.2339708	2.2356489	2.2347162	2.2352492	2.2751678	2.2747821	2.2741038	2.2740572	2.2798013	7 7488057
	-0.565775 2.	-0,0572607 2		1	-0.4973234 2.	-0.979217 2	-0.9371664 2.	-0.1633261 2	-0.0463048 2.	-0.9870355 2.	-0.9485183 2	0.0042604 2	0.0152905 2	0.0324622 2	-0.1003353 2.	-0.0368681 2	0.1534098 2.	-0.4778374 2.	-0.035779 2.	0.0621399 2.	0.0615025 2.	0.1655042 2.	4.9731595 2	0.4313717 2.	0.3168442 2.	0.3362683 2.	0.2663996 2	0.2192656 2				. 1		7					0.2408308 2.	0.2684107 2.	0.250351 2.	0.2802514 2.	0.2779495 2.	0.3436784 2.	C 303215CO
0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.0940762	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.3915333	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5438633	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	0.5568983	00000
0.0747801	0.0748091	0.0752411	0.075233	0.0751138	0.0757796	0.075359	0.075845	0.0757508	0.0758585	0.0756235	0.075971	0.0746606	0.07468	0.074274	0.0738446	0.0738894	0.0739299	0.0745663	0.0736074	0.0724055	0.0726424	0.072698	0.0720555	0.0719957	0.0714478	0.0716018	0.0716229	0.0716106	0.071301	0.0712408	0.0712408	0.0713173	0.0713128	0.0712059	0.0712073	0.0733029	0.0733579	0.0733273	0.0733448	0.0746547	0.074642	0.0746197	0.0746182	0.0748067	000000
-0.0006889	-0.0182862	-0.0018507	-0.0146632	-0.0031882	-0.0160738	-0.0316489	-0.0302898	-0.0052788	-0.0014966	-0.0319016	-0.0306567	0.0001377	0.0004942	0.0010492	-0.0032429	-0.0011916	0.0049583	-0.015444	-0.0011564	0.0020084	0.0019878	0.0053492	0.1607356	0.0139422	0.0102406	0.0108684	0.0086102	0.0070868	0.0070146	0.0081289	0.0078774	0.0081243	0.0096472	0.0101763	0.0142381	0.0117745	0.0091782	0.008879	0.0077838	0.0086752	0.0080915	0.0090579	0.0089835	0.0111079	
0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0030406	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.0126546	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.017578	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0.0179993	0000
5364.6	5366.68	5358.76	5358.18	5349.69	5347.97	5347.88	5352.24	5350.15	5357.76	5351.07	5350.11	5352.35	5353.74	5358.7	5358.74	5361.99	5364.93	5365.93	5360.33	5359.19	5358.28	5362.38	5362.51	5360.24	5358.19	5367.35	5368.93	5368.01	5368.01	5363.48	5363.48	5369.24	5368.9	5360.85	5360.96	5364.69	5368.72	5366.48	5367.76	5366.92	5366.01	5364.41	5364.3	5377.85	10101
5.35475E+13	5.35475E+13	5.31615E+13	5.31615E+13	5.31615E+13	5.26774E+13	5.29706E+13	5.26741E+13	5.2719E+13	5.2719E+13	5.28168E+13	5.25658E+13	5.35108E+13	5.35108E+13	5.38531E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.37144E+13	5,43573E+13	5.52479E+13	5.50584E+13	5.50584E+13	5.55506E+13	5.55733E+13	5.5978E+13	5.59531E+13	5.59531E+13	5.59531E+13	5.61961E+13	5.46276E+13	5.46276E+13	5.46276E+13	5.46276E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	C4.7477C47						
		574234 6.35303E+12	574234 6.35303E+12	574234 6.35303E+12	574235 6.35303E+12	574236 6.35303E+12			574238 6.35303E+12	574239 6.35303E+12	574240 6.35303E+12	574243 6.35303E+12	574243 6.35303E+12	574245 6.35303E+12	574246 6.35303E+12	574246 6.35303E+12	574246 6.35303E+12	47 6.35303E+12	574249 6.35303E+12	51 6.35303E+12	574252 6.35303E+12	52 6.35303E+12	53 6.35303E+12	574254 6.35303E+12	55 6.35303E+12	-													574260 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	61 6.35303E+12	
	N	N	N	7	7	12	574237	7	7	2	2	2	7	2	17	12	42	574247	42	574251	42	574252	574253	42	574255	574257	574257	574257	574258	574258	574258	574258	42	574258	574258	574260	574260	42	42	12	17	7	7	574261	27000

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	5.60115E+13	5357.31	0.0197454	0.008352	0.0713933	0.6109227	0.2584109 2.1757765	
	5.58958E+13	5342.94	0.0197454	0.0091438	0.0713492	0.6109227	0.2829092 2.1744317	7 2.1744317
	5.6144E+13	5354.22	0.0197454	0.0085778	0.0711837	0.6109227	0.2653971 2.1693883	-
	5.6095E+13	5356.83	0.0197454	0.0083666	0.0712807	0.6109227	0.2588626 2.1723438	. 22
	5.6095E+13	5351.83	0.0197454	0.0082673	0.0712142	0.6109227	0.2557903 2.1703161	
	5.54087E+13	5355.01	0.0197454	0.0084139	0.0721391	0.6109227	0,2603261 2,1985034	
	5,53104E+13	5355.83	0.0197454	0.0088342	0.0722783	0.6109227		las.
	5.53441E+13	5354.54	0.0197454	0.0108837	0.072217	0.6109227	0.3367417 2.2008772	2 2.2008772
	5.53441E+13	5352.64	0.0197454	0.0122486	0.0721913	0.6109227	0.3789717 2.2000962	2.2000962
	5.53441E+13	5355.99	0.0197454	0.0149968	0.0722365	0.6109227	0.464001 2.2014732	2 2.2014732
	5.53441E+13	5375.12	0.0222325	0.0101231	0.0724945	0.6878735	0.3132087 2.2093362	2 2.2093362
	5.53441E+13	5371.63	0.0222325	0.0092988	0.0724475	0.6878735	0.2877049 2.2079017	7 2.2079017
	5.53441E+13	5367.35	0.0222325	0.0159435	0.0723897	0.6878735	0.4932919 2.2061425	2.5
	5.53441E+13	5362.88	0.0222325	0.0163429	0.0723295	0.6878735	0.5056493 2.2043052	.55
	5.36343E+13	2367	0.0222325	0.0162985	0.0746925	0.6878735	0.5042756 2.2763203	3 2.2763203
	5.36343E+13	5371.56	0.0222325	0.0160846	0.0747559	0.6878735		- 77
6.35303E+12	5.309E+13	5370.52	0.0222325	0.0202582	0.0755079	0.6878735		
6.35303E+12	5.49235E+13	5373.23	0.0222325	0.0194913	0.0730239	0.6878735		
6.35303E+12	5.67946E+13	5385.74	0.0222325	0.0175595	0.0707827	0.6878735	0.5432909 2.1571652	2.1571652
6.35303E+12	5.67946E+13	5380.67	0.0222325	0.0174214	0.070716	0.6878735	0.5390181 2.1551345	5 2.1551345
6.35303E+12	5.67946E+13	5377.85	0.0222325	0.0137409	0.070679	0.6878735	0.4251434 2.154005	5 2.154005
6.35303E+12	5.6096E+13	5376.85	0.0222325	0.0182958	0.0715459	0.6878735	0.5660721 2.1804251	2.1804251
6.35303E+12	5.6096E+13	5379.99	0.0242054	0.0181581	0.0715877	0.7489151	0.5618116 2.1816984	1 2.1816984
6,35303E+12	5.56063E+13	5400.03	0.0242054	0.0202376	0.0724871	0.7489151	0.6261513 2.2091081	1 2.2091081
6.35303E+12	5.56063E+13	5401.02	0.0242054	0.0201139	0.0725003	0.7489151	0.6223241 2.2095131	1 2.2095131
6.35303E+12	5.56063E+13	5410.51	0.0242054	0.0214443	0.0726277	0.7489151	0.6634866 2.2133954	1 2.2133954
6.35303E+12	5.64188E+13	5401.01	0.0242054	0.0210331	0.0714561	0.7489151	0.6507641 2.17769	2.17769
6.35303E+12	5.64188E+13	5401.31	0.0242054	0.0205184	0.0714601	0.7489151	0.6348393 2.1778109	
6.35303E+12	5.57835E+13	5409.35	0.0242054	0.0209267	0.0723816	0.7489151	0.6474721 2.2058933	3 2.2058933
6.35303E+12	5.57835E+13	5396.6	0.0242054	0.0200056	0.072211	0.7489151	0.6189733 2.2006939	3.2006939
6.35303E+12	5.57835E+13	5405.56	0.0242054	0.0208363	0.0723309	0.7489151	0.6446751 2.2043478	3 2.2043478
6.35303E+12	5.57835E+13	5401.1	0.0242054	0.020561	0.0722712	0.7489151	0.6361573 2.202529	3 2.202529
6.35303E+12	5.57835E+13	5400.14	0.0242054	0.0208137	0.0722583	0.7489151	0.6439759 2.2021375	5 2.2021375
6.35303E+12	5.57835E+13	5401,59	0.0242054	0.020787	0.0722777	0.7489151	0.6431498 2.2027288	3 2.2027288
6.35303E+12	5.57835E+13	5405.56	0.0252561	0.020855	0.0723309	0.7814237	0.6452537 2.2043478	3 2.2043478
6.35303E+12	5.57835E+13	5409.65	0.0252561	0.0210312	0.0723856	0.7814237	0.6507053 2.2060156	3 2.2060156
6.35303E+12	5.36818E+13	5410.84	0.0252561	0.0209883	0.075236	0.7814237	0.649378 2.2928844	1 2.2928844
6.35303E+12	5.50908E+13	5403.01	0.0252561	0.0209925	0.0732057	0.7814237	0.649508 2.2310097	7.2310097
6.35303E+12	5.6446E+13	5380.86	0.0252561	0.0210373	0.0711552	0.7814237	0.6508941 2.1685188	3 2.1685188
6.35303E+12	5.6446E+13	5384.99	0.0252561	0.0210425	0.0712098	0.7814237	0.651055 2.1701832	2.1701832
6.35303E+12	5.61643E+13	5388.52	0.0252561	0.022109	0.071614	0.7814237	0.6840525 2.1824996	3.1824996
6.35303E+12	5.61643E+13	5385.01	0.0252561	0.0221868	0.0715673	0.7814237	0.6864596 2.1810779	2.1810779
6.35303E+12	5.61643E+13	5382.53	0.0252561	0.0216043	0.0715343	0.7814237	0.668437 2.1800735	2.1800735
6.35303E+12	5.61643E+13	5379.16	0.0252561	0.0221915	0.0714896	0.7814237	0.686605 2.1787085	2.1787085
6.35303E+12	5.59818E+13	5379.99	0.0252561	0.0222715	0.0717336	0.7814237	0.6890802 2.1861462	2.1861462
6 35303F+12	5.63654E+13	5381 68	0.0252561	0.0222386	0.0712679	0 7814737	שנשמונו ל בנשמסט ח	21719575
		000	10000	1		0.1017401	4	

	2.1460054 2.1460054			~	2.1351406 2.1351406	2.1287047 2.6619105	2,1288153 6.9517941	2.1258102 4.9416904	2.1253849 5.6219496	2.097339 5.5536557	2.097588 6.9253714	2.0981483 2.0981483	2.0952297 2.0952297	2.0432598 2.0432598	2.043256 2.043256	2.0362532 2.0362532	2.0426553 2.0426553	2.0496101 2.0496101	2.0491354 2.0491354	2.0504592 2.0504592	2.0523603 2.0523603	2.0513744 2.0513744	2.0289816 6.7396169	2.0294825 2.0294825	1.9736205 7.1662919	1.9751572 1.9751572	1.9768841 1.9768841	9780586 1.9780586	1.989492 1.989492	1.9913185 1.9913185	1.9913038 1.9913038	1.9919961 1.9919961	,,,	1.9880375 1.9880375	1.9859238 1.9859238	1.9853677 1.9853677	.9869732 1.9869732	1.9866197 1.9866197	.9862994 1.9862994	1.9860931 1.9860931	2.0855052 2.0855052	2.0860853 2.0860853	2.0954606 2.0954606	בשר דיייייייייייייייייייייייייייייייייייי
	0.6772921 2.14		01		0.8336412 2.13	2.6619105 2.1	6.9517941 2.13	4.9416904 2.13	5.6219496 2.13		6.9253714 2.0	1.1942592 2.09	0.8901686 2.09	0.7964853 2.04	0.8220758 2.0	0.8171378 2.0	0.9518536 2.0	0.9517082 2.04	0.9532769 2.04	0.820139 2.05	0.9072227 2.0	0.8286753 2.0	6.7396169 2.07	0.8674369 2.07	7.1662919 1.97	1,5554899 1.97	1.1824092 1.97	0.9692017 1.97	0.8940639 1.9	0.890184 1.99	0.8752245 1.99		0.8815054 1.99	0.8461131 1.98		0.8508129 1.98	0.8430779 1.98	0.8452313 1.98	0.8490617 1.98	0.8460698 1.98	0.8443619 2.08	0.8226544 2.08	0.8645564 2.09	OC OLDSTROOM
-	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8175122	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.8905336	0.943803	0.943803	0,943803	0.943803	0.943803	0.943803	0.943803	0.943803	0.943803	0.943803	0.943803	0.943803	0.9219254	0.9219254	0.9219254	0.9219254	0.9219254	0.9219254	0.9219254	0.9219254	0.9219254	0 9219254
10000	0.0704165	0.0696352	0.0696814	0.0697494	0.07006	0.0698488	0.0698524	0.0697538	0.0697399	0.0688196	0.0688278	0.0688461	0.0687504	0.0670451	0.067045	0.0668152	0.0670253	0.0672535	0.0672379	0.0672813	0.0673437	0.0673114	0.0665766	0.066593	0.06476	0.0648105	0.0648671	0.0649057	0.0652808	0.0653408	0.0653403	0.065363	0.0654177	0.0652331	0.0651637	0.0651455	0.0651982	0.0651866	0.0651761	0.0651693	0.0684313	0.0684503	0.068758	0.0688454
2000	0.0218905	0.0244837	0.0226768	0.0261908	0.0269438	0.0860346	0.2246863	0.1597185	0.1817049	0.1794976	0.2238323	0.0385992	0.0287708	0.0257429	0.02657	0.0264104	0.0307645	0.0307598	0.0308105	0.0265074	0.029322	0.0267833	0.2178286	0.0280361	0.231619	0.0502744	0.0382162	0.0313252	0.0288967	0.0287713	0.0282878	0.0284715	0.0284908	0.0273469	0.0273754	0.0274988	0.0272488	0.0273184	0.0274422	0.0273455	0.0272903	0.0265887	0.027943	0.0271998
	0.0264225		0.0264225	0.0264225	0.0264225	0.0264225	0.0264225	0.0264225	0.0264225	0.0264225	0.0287826	0.0287826	0.0287826	0.0287826		0.0287826	0.0287826	9	0.0287826	0.0287826	0.0287826	0.0287826	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043	0.0305043		0.0297972	0.0297972	0.0297972	0.0297972	0.0297972	0.0297972	0.0297972	0.0297972	0.0297972	0.0797977
44 0007			3 5392.01	3 5397.27	3 5392.2	3 5391.27	3 5391.55	3 5397.52	3 5396.44	3 5390.94	3 5391.58	3 5393.02	3 5393.03	3 5395.99					3 5396.26	3 5395.6	3 5391.83	3 5389.24	3 5387.74	3 5389.07	3 5394.18	3 5398.38	3 5403.1	3 5406.31	3 5402,68	3 5407.64	3 5407.6					3 5391.48	3 5395.84	3 5394.88	3 5394.01	3 5393.45	3 5392.88	3 5394.38	3 5392.66	3 5399 57
711000	5.69506F+13	5.77593E+13	5.77593E+13	5.77593E+13	5.74492E+13	5,7613E+13	5.7613E+13	5.77583E+13	5.77583E+13	5.8471E+13	5.8471E+13	5.8471E+13	5.85526E+13	6.00748E+13	6.00748E+13	6.02983E+13	6.01255E+13	5.99055E+13	5.99055E+13	5.98595E+13	5.97623E+13	5.97623E+13	6.04051E+13	6.04051E+13	6.21737E+13	6.21737E+13	6.21737E+13	6.21737E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	5.8824E+13	5.8824E+13	5.85421E+13	5.85421E+13
רויזכטכזכ ז זטנ			298 6.35303E+12	298 6.35303E+12	300 6.35303E+12	301 6.35303E+12		302 6.35303E+12	302 6.35303E+12	574305 6.35303E+12	574305 6.35303E+12	305 6.35303E+12	574306 6.35303E+12							574314 6.35303E+12	315 6.35303E+12	315 6.35303E+12		317 6.35303E+12	320 6.35303E+12			574320 6.35303E+12	321 6.35303E+12	574321 6.35303E+12				321 6.35303E+12		321 6.35303E+12	321 6.35303E+12	574321 6.35303E+12	574321 6.35303E+12	574321 6.35303E+12	574322 6.35303E+12	574322 6.35303E+12	574323 6.35303E+12	373 6 35303F+17
שמראלה א רדיבה			22:21.3 574298	27:24.6 574298	32:27.7 574300	37:31.8 574301		47:40.3 574302	52:44.3 574302	57;48.1 574;	02:52.0 574:	07:55.1 574305	12:58.1 574.						43:15.9 574	48:18.6 574.	53:21.7 574315	58:24.3 574315	03:28.3 574317	08:31.2 574317	13:35.6 574320			28:44.2 574.	33:47.2 574321				53:58.0 574321	59:00.7 574321		09:06.9 574321	14:10.1 574321	19:13.1 574	24:16.0 574	29:18.8 574.	34:22.0 574.	39:25.3 574.	44:28.3 574;	49:31.3 574323

63500E1-12 58700E1-13 58700E-14	136773	6 353035.13	E 050305113	7,000,7	2007000	0.00	1000			
6.550361-12 5.574461-13 5.732-8 0.036492 0.022505 0.0056907 1.120022 0.025305 0.0253	574361	6.35303F+12	5.95038E+13	5409.65	0.036492	0.0250046	0.0678598	1.1290625	,	
C63500E+12 S, R44RE+13 S4228 O.0026922 O.0029024 O.0029024 <th< td=""><td>574362</td><td>6.35303E+12</td><td>5.87448E+13</td><td>5422.88</td><td>0.036492</td><td>0.0243161</td><td>0.0689047</td><td>1 1 2 9 0 6 2 5</td><td></td><td></td></th<>	574362	6.35303E+12	5.87448E+13	5422.88	0.036492	0.0243161	0.0689047	1 1 2 9 0 6 2 5		
6.530361-1.2 5.8846618-13 54201 0.0024513 0.0089081 1.11390623 0.758959 1.1031018 6.330361-1.2 5.88466413 5.8721 0.0074366 0.0700091 0.004039 1.1139062 1.157703 0.070736 0.0700091 0.0488884 1.1517074 0.0751483 0.070736 0.0707075 0.0488884 0.756492 1.1518072 0.0751483 0.0707075 0.0707075 0.0488884 0.766492 1.1518072 0.0751483 0.0707075 0.0488884 0.766492 1.1518072 0.0751483 0.0707075 0.0488884 0.766492 1.1518072 0.0751483 0.0707075 0.04888884 0.766492 1.1518072 0.0751481 0.0707075 0.0888884 0.766492 0.7519171 0.0707075 0.	574362	6.35303E+12	5.87448E+13	5432.58	0.036492	0.0229003	0.0690279	1.1290625		
CASODELIA I. SNBOZDELIA S. SNBOZDELIA S. ALANAS. CODAGNOS COMENDAS LISTADERA LISTADERA S. LISTADERAS	574362	6.35303E+12	5.87448E+13	5428.01	0.036492	0.0245215	0.0689699	1.1290625		
CASODE-LA CASODE-LA CADATASE CONTONS CONTONS CONTONS CASORES LISTORES CASODE-LA CASODE-LA CASODE-LA CADATASE CONTONS CONTONS CASORES LISTORES CASODE-LA CASODE-LA CASODE-LA CADATASE CONTONS CASOBER CAGAGER CAGAGER CASODE-LA CASODE-LA CASODE-LA CADATASE CONTONS CAGAGER	574363	6.35303E+12	5.80502E+13	5427.15	0.036492	0.0332235	0.0697841	1.1290625		
6.5500E+1.2 5.7865E+1.8 \$441.99 0.027456 0.0040335 0.0070495 0.0408488 0.027436 0.027436 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.0707495 0.069345 0.0693495 0.0693495 0.0693495 0.0693495 0.0707495 0.0707495 0.0693495 0.0693495 0.0707495 0.0707495 0.0693495 0.0707495 0.0707495 0.0693495 0.0693495 0.0707495 0.0707495 0.0693495 0.0693495 0.0707495	574364	6.35303E+12	5.78645E+13	5427.23	0.0274366	0.0490236	0.0700091	0.8488884	-	
6.5300E+12 5.5399E+13 5.4889 0.0074366 0.0024975 0.009955 0.8888884 0.766495 1157024 6.5300E+12 5.6439E+13 5.6436 0.0024956 0.0028921 0.888884 0.760692 1157024 6.5300E+12 5.6438E+13 5.6436 0.0024965 0.0028921 0.888884 0.760692 11167024 6.5300E+12 5.81378E+13 5.6436 0.0024966 0.0021862 0.0068821 0.8888884 0.760662 2.1149020 6.5300E+12 5.7331EE+13 5.6427 0.0024966 0.0021032 0.0071032 0.8888884 0.6666487 1.116702 6.5300E+12 5.7331EE+13 5.6443 0.0071032	574364	6.35303E+12	5.78645E+13	5441.99	0.0274366	0.0440935	0.0701995	0.8488884		
6.3500E+12 5.6463E+13 5.6440 0.0273466 0.025465 0.089821 0.888884 0.7500E 1.114970 6.3500E+12 5.6440 0.0273466 0.023597 0.069826 0.888884 0.7500E 1.114970 6.3500E+12 5.81378E+13 54449 0.027466 0.021541 0.069826 0.888884 0.65066 0.127842 6.3500E+12 5.732E+12 54449 0.027466 0.021032 0.070891 0.888884 0.650647 1.127920 6.3500E+12 5.732E+12 54449 0.027446 0.021032 0.070844 0.560649 1.127107 6.3500E+12 5.732E+12 54449 0.027446 0.021032 0.070944 0.888884 0.660315 1.114970 6.3500E+12 5.732E+12 5468 0.021042 0.020044 0.888884 0.660315 1.114970 6.3500E+12 5.732E+12 5468 0.021042 0.070944 0.888884 0.660321 1.114970 6.3500E+12 5.732E+12 540 0.021042	574365	6,35303E+12	5.73396E+13	5428.97	0.0274366	0.0247736	0.0706726	0.8488884		
6.3500E+12 5.84433E+13 5.073466 0.0235957 0.0683966 0.8888884 0.57300F07 1.114020 6.3500E+12 5.8137E+13 5.4348 0.0724366 0.0215412 0.068396 0.8888884 0.0560E022 1.217992 6.3500E+12 5.8137E+13 5.434.9 0.0274366 0.021435 0.0705189 0.888884 0.0560E022 1.21744 6.3500E+12 5.7331E+13 5.444.99 0.0274366 0.020302 0.077392 0.888884 0.650615 1.17492 6.3500E+12 5.7331E+13 5.444.99 0.0274366 0.020002 0.077392 0.888884 0.6521157 1.17492 6.3500E+12 5.7331E+13 5.444.99 0.027436 0.020004 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077437 0.077444 0.077444 0.077444 0.077444 0.077444 0.077444 0.077444	574367	6.35303E+12	5.84533E+13	5439.06	0.0274366	0.0251483	0.069455	0.8488884		
6.5300EH-12 5.8137EH-13 6.983.3 0.0274366 0.0274365 0.0274365 0.0274365 0.0274364	574367	6.35303E+12	5.84533E+13	5434.48	0.0274366	0.0235975	0.0693965	0.8488884		
6.3500E+12 5.873E+13 5.499.66 0.00274366 0.0021043 0.00210436 0.00210436<	574368		5.81378E+13	5438.3	0.0274366	0.0218651	0.0698221	0.8488884		
5.3530E+12 5.7331E+13 5.44257 0.027356 0.020323 0.0705199 0.0888884 0.6506229 2.152170 6.3530E+12 5.7331E+13 5.44.3 0.027356 0.020324 0.070591 0.888884 0.650522 2.12170 6.3530E+12 5.7331E+13 5.44.3 0.027356 0.020324 0.070736 0.688884 0.651672 1.710076 6.3530E+12 5.7331E+13 5.47.06 0.021425 0.019863 0.070736 0.65449 0.651672 1.710076 6.3530E+12 5.7078T+13 5.47.06 0.021442 0.019863 0.0707467 0.65449 0.651832 1.62083 6.3530E+12 5.7078T+13 5.66.01 0.0211425 0.019877 0.071449 0.65449 0.615932 1.710179 6.3530E+12 5.7078T+13 5.66.01 0.0211425 0.021462 0.071449 0.05449 0.615932 1.710179 6.3530E+12 5.6201E+13 5.645.01 0.0211425 0.021064 0.071449 0.65449 0.615932 1.710179 <td>574368</td> <td></td> <td>5.81378E+13</td> <td>5439.66</td> <td>0.0274366</td> <td>0.0215412</td> <td>0.0698396</td> <td>0.8488884</td> <td></td> <td></td>	574368		5.81378E+13	5439.66	0.0274366	0.0215412	0.0698396	0.8488884		
533036F412 573316F413 5444.99 0.0274366 0.0203824 0.0778991 0.888884 0.667922 2.104096 6.53336F412 5.73316F413 5447.99 0.0274366 0.020327 0.0712023 0.8888884 0.667922 2.170109 6.33336F412 5.73316F413 5468.28 0.0274366 0.0203047 0.0712073 0.8888884 0.667922 2.170109 6.35303F412 5.73316F413 5468.28 0.0211425 0.0202047 0.0712073 0.8888884 0.6673134 2.170109 6.35308F412 5.7378F413 5460.16 0.0211425 0.0202047 0.0710492 0.654149 0.667932 2.17709 6.35308F412 5.7078F413 5460.16 0.0211425 0.0201804 0.0712417 0.654149 0.667932 2.17709 6.35308F412 5.6816F413 5460.16 0.0211425 0.021097 0.071241 0.051443 0.667932 2.17709 6.35308F412 5.6816F413 5466.17 0.0211425 0.0213492 0.077449 0.667449 0.667932	574369	6.35303E+12	5.7527E+13	5442.57	0.0274366	0.021035	0.0706189	0.8488884		
6.33308F+1.2 5.73316F+1.3 5.49.73 0.0074366 0.0020302 0.00710739 0.8488884 0.616792 2.770070 6.33308F+1.2 5.73316F+1.3 5465.28 0.0024366 0.0071073 0.8488884 0.616792 2.770070 6.33308F+1.2 5.73316F+1.3 5465.01 0.0271425 0.0071045 0.007464 0.654149 0.654182 0.0071070 6.33308F+1.2 5.7038F+1.3 546.01 0.0211425 0.0070366 0.007149 0.654149 0.657182 1.676292 2.77070 6.33308F+1.2 5.6737F+1.3 546.01 0.0211425 0.020366 0.0071497 0.654149 0.657382 1.67629 2.77070 6.33308F+1.2 5.6737F+1.3 546.01 0.0211425 0.020086 0.071497 0.654149 0.651932 1.77070 6.64449 0.651932 1.77070 6.33308F+1 5.6374749 0.651932 1.77070 6.33308F+1 6.33308F+1 6.34449 0.651932 1.77070 6.64449 0.651932 1.77070 6.64449 0.651932 1.77070 </td <td>574370</td> <td>6.35303E+12</td> <td>5.73316E+13</td> <td>5444.99</td> <td>0.0274366</td> <td>0.0203824</td> <td>0.0708911</td> <td>0.8488884</td> <td></td> <td></td>	574370	6.35303E+12	5.73316E+13	5444.99	0.0274366	0.0203824	0.0708911	0.8488884		
6.33308F+12 5.7331EF+13 5.469.28 0.027456 0.0199351 0.0171070 0.0488884 0.6515792 2.1701070 6.33308F+12 5.75391F+13 5.468.28 0.027145 0.020204 0.0790444 0.0488884 0.6513912 2.1701070 6.3330GF+12 5.77391F+13 546.23 0.0211425 0.0202047 0.071456 0.654149 0.6515291 2.1702094 6.3330GF+12 5.7078F+13 546.01 0.0211425 0.0210496 0.071456 0.654149 0.65152912 1.7708 6.3330GF+12 5.7078F+13 546.01 0.0211425 0.0218005 0.071497 0.654149 0.6519291 1.18966 6.3330GF+12 5.67247F+13 546.01 0.0211425 0.0218005 0.071499 0.654149 0.6519291 2.18966 6.3330GF+12 5.6816ZF+13 546.01 0.0211425 0.0218005 0.071439 0.654149 0.651972 1.7708 6.3330GF+12 5.68176ZF+13 548.01 0.0211425 0.0218005 0.071439 0.654149 0.6519292	574370	6.35303E+12	5.73316E+13	5471.73	0.0274366	0.0203027	0.0712392	0.8488884		
6.33308F+12 5.73391F+13 5.468.81 0.0020346 0.0020340 0.0079444 0.888884 0.6251334 2.620884 6.33308F+12 5.73391F+13 5.468.81 0.021425 0.0198863 0.007936 0.654149 0.657489 0.657489 6.33308F+12 5.7078F+13 5.464.32 0.021442 0.020346 0.027446 0.657489 0.657489 0.657489 6.33308F+12 5.6018C 0.021442 0.020346 0.027347 0.65449 0.657480 0.657489 0.657480 0.657489	574370	6.35303E+12	5.73316E+13	5469.28	0.0274366	0.0199351	0.0712073	0.8488884		
6.33303E+1.2 5,7391E+1.3 547.10 0.0011432 0.0019885 0.00704567 0.65449 0.6152922 2.162983 6.33303E+1.2 5,7078F+1.3 546.01 0.0211425 0.020941 0.0714567 0.65449 0.619324 2.17708 6.33303E+1.2 5,6724F+1.3 546.01 0.0211425 0.0218005 0.071349 0.654149 0.611997 2.1896661 6.33303E+1.2 5,6816E+1.3 546.2 0.0211425 0.0218005 0.071721 0.654149 0.611997 2.1896661 6.33303E+1.2 5,6816E+1.3 546.2 0.0211425 0.0218005 0.071249 0.654149 0.6519012 2.1896661 6.33303E+1.2 5,6816E+1.3 546.2 0.0211425 0.020038 0.072232 0.654149 0.6519022 2.020266 6.33303E+1.2 5,6627E+1.3 546.3 0.0211425 0.020038 0.072232 0.654149 0.6519022 2.020266 6.33303E+1.2 5,627AeE+1.3 546.4 0.0211425 0.0202314 0.072232 0.054449 0.651049	574373	6.35303E+12	5.75391E+13	5468.81	0.0274366	0.0202047	0.0709444	0.8488884		
6.33303E+1.2 5.70787E+13 5464.2 0.0011435 0.0039641 0.0714567 0.654149 0.6076956 2.17770 6.33303E+1.2 5.70787E+13 5466.1 0.0210365 0.0017492 0.654149 0.611597 2.18666 6.33303E+1.2 56816E+13 5469.2 0.0211425 0.019677 0.071494 0.654149 0.611597 2.185782 6.33303E+1.2 56816E+13 5469.2 0.0211425 0.0210694 0.0717217 0.654149 0.6511697 2.185782 6.33303E+1.2 56816E+13 5466.4 0.0211425 0.0210694 0.0717217 0.654149 0.6511691 2.188962 6.33303E+1.2 563776E+13 546.4 0.0211425 0.0210694 0.072223 0.654149 0.6511691 2.188922 6.33303E+1.2 56376E+13 546.4 0.0211425 0.021094 0.072223 0.654149 0.651039 2.185782 6.33303E+1.2 56374E+13 546.4 0.0211425 0.021094 0.072223 0.654149 0.651059 2.185782	574373	6.35303E+12	5.75391E+13	5471.06	0.0211425	0.0198863	0.0709736	0.654149		
6.33303E+1.2 5.0708T+1.3 5.456.01 0.0211425 0.0203036 0.071492 0.654149 0.6159324 1.144321 1.144321 1.144321 1.144321 0.0130841 0.654149 0.6159194 1.144321 2.18666 0.033302F12 1.184321 1.184321 1.184321 1.184321 1.18466 0.031142 0.013140	574374	6.35303E+12	5.70787E+13	5464.23	0.0211425	0.0196411	0.0714567	0.654149		
6.33309E+12 5.67247E+13 5.460.16 0.0211425 0.0197672 0.071899 0.054149 0.654149 0.6115972 2.1896661 6.33303E+12 5.6816ZE+13 5.460.16 0.0211425 0.0210805 0.077217 0.054149 0.6515019 2.1896661 6.33303E+12 5.6812ZE+13 5.48.6 0.0211425 0.0200894 0.0772377 0.654149 0.6515019 2.204286 6.33303E+12 5.62276E+13 5.46.4 0.0211425 0.0200894 0.072327 0.654149 0.654149 0.6515019 2.204286 6.33303E+12 5.62276E+13 5.46.4 0.0211425 0.0210094 0.072232 0.072449 0.654149 0.651469 0.651501 2.204286 6.33303E+12 5.6507E+13 5.46.4 0.0211425 0.0210021 0.0772324 0.654149 0.651496 0.651496 0.654149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 0.65149 <	574374	6.35303E+12	5.70787E+13	5456.01	0.0211425	0.0200366	0.0713492	0.654149		
6.33308F+12 5.68162F+13 5495.27 0.0211425 0.0218005 0.054149 0.054449 0.054149 0.054105 2.020287 6.33308F+12 5.68162F+13 545.64 0.0211425 0.0200894 0.071636 0.054149 0.65146 0.65146 0.65196 2.020287 6.33308F+12 5.62276F+13 546.4 0.0211425 0.0210094 0.072439 0.654149 0.65196 2.020287 6.33308F+12 5.62276F+13 546.4 0.0211425 0.0216094 0.072439 0.654149 0.65196 2.04246 6.33308F+12 5.62074F+13 546.7 0.0211425 0.0216094 0.072439 0.654149 0.65196 2.02025 6.33308F+12 5.65074F+13 546.7 0.0211425 0.0216091 0.072249 0.654149 0.65196 2.021122 6.33308F+12 5.65074F+13 546.7 0.0211425 0.020280 0.072242 0.654149 0.65196 2.021122 6.33308F+12 5.6501F+13 546.7 0.011425 0.0211021 0.072242	574375	6.35303E+12	5.67247E+13	5460.16	0.0211425	0.0197672	0.0718491	0.654149		
6.33303E+12 5.6816E+13 5454.55 0.0011425 0.0016596 0.654149 0.6150191 2.1383922 6.33303E+12 5.63276E+13 5465.45 0.0211425 0.0223136 0.072327 0.0554149 0.6554149 0.65156E 2.03256 6.33303E+12 5.63276E+13 5465.4 0.0211425 0.0210425 0.072439 0.654149 0.654149 0.65146 0.65146 0.65146 0.65146 0.654149 0.65146 0.654149 0.65146 0.654149 0.65146 0.654149	574376	6,35303E+12	5.68162E+13	5459.27	0.0211425	0.0218005	0.0717217	0.654149		
6.35303F+1.1 5.63276F+13 5.488.01 0.0211425 0.0200894 0.0773372 0.654149 0.65156 2.042367 6.35303F+1.2 5.63276F+13 5.468.4 0.0211425 0.022136 0.0724384 0.654149 0.650328 2.002137 6.35303F+1.2 5.63276F+13 5.464.7 0.0211425 0.0211407 0.077222 0.654149 0.668398 2.001207 6.35303F+1.2 5.65074F+13 5.464.7 0.0211425 0.0200281 0.0772225 0.654149 0.668398 2.001272 6.35303F+1.2 5.65611F+13 5.464.7 0.0211425 0.0200281 0.0772242 0.654149 0.6685948 2.001379 6.35303F+1.2 5.65611F+13 5464.7 0.0211425 0.0210022 0.054149 0.654149 0.6585018 2.001329 6.35303F+1.2 5.65611F+13 5464.7 0.0211425 0.0210024 0.072242 0.656158 0.559018 2.001323 6.35303F+1.2 5.65611F+13 5478.86 0.0182998 0.0182998 0.0182998 0.0182998 0	574376	6.35303E+12	5.68162E+13	5454.55	0.0211425	0.0198778	0.0716596	0.654149		
6.3330E+12 5.63276E+13 5.466.4 0.0214125 0.022316 0.0724384 0.654449 0.6903828 2.2076251 6.3330E+12 5.63276E+13 5.467.7 0.0211425 0.0216094 0.072423 0.654449 0.683488 2.2071227 6.3330E+12 5.650TE+13 5.467.7 0.0211425 0.0211407 0.072224 0.654149 0.658368 2.2011227 6.3530E+12 5.650TE+13 5.467.7 0.0211425 0.0211402 0.072224 0.654149 0.658368 2.2011227 6.3530E+12 5.65GTE+13 5.467.7 0.018298 0.0190C1 0.072242 0.5661958 0.589361 2.2011227 6.3530E+12 5.65GTE+13 5.478.56 0.018298 0.019021 0.072392 0.5661958 0.589361 2.201342 6.3530E+12 5.65GTE+13 5.487.8 0.018298 0.018294 0.0740521 0.5661958 0.573378 2.201348 6.3530E+12 5.560TE+13 5.4816E+13 5.481 0.018298 0.018495 0.0740521 0.5661958 <	574377	6.35303E+12	5.63276E+13	5458.01	0.0211425	0.0200894	0.0723272	0.654149		
6.35303E+12 5.63276E+13 5.455.31 0.0011425 0.0216994 0.0724239 0.654149 0.6685948 2.2071849 6.35303E+12 5.65074E+13 5.467.7 0.0211425 0.020128 0.077225 0.654149 0.6585045 2.2071849 6.35303E+12 5.6501E+13 5.467.7 0.0211475 0.0200281 0.077224 0.654149 0.6585015 2.101227 6.35303E+12 5.6561IE+13 5.478.95 0.0138298 0.0190671 0.072342 0.5661958 0.6589361 2.2031342 6.35303E+12 5.6561IE+13 5.478.95 0.018298 0.0187179 0.072364 0.5661958 0.559381 2.203134 6.35303E+12 5.6561IE+13 548.86 0.018298 0.018834 0.072361 0.5661958 0.559381 2.203341 6.35303E+12 5.6561IE+13 548.86 0.018298 0.018495 0.074351 0.5661958 0.557941 2.053581 6.35303E+12 5.6561IE+13 548.86 0.018298 0.018495 0.074457 0.566198 0.556194 <td>574377</td> <td>6.35303E+12</td> <td>5.63276E+13</td> <td>5466.4</td> <td>0.0211425</td> <td>0.0223136</td> <td>0.0724384</td> <td>0.654149</td> <td></td> <td>7.</td>	574377	6.35303E+12	5.63276E+13	5466.4	0.0211425	0.0223136	0.0724384	0.654149		7.
6.35303E+12 5.66704E+13 5.467.7 0.0211425 0.0211707 0.072225 0.654449 0.6550215 2.2011227 6.35303E+12 5.5561E+13 5.464.7 0.0210281 0.072042 0.654449 0.6196694 2.1602037 6.35303E+12 5.5561IE+13 5.464.7 0.0200281 0.0190221 0.072322 0.5661958 0.589361 2.201342 6.35303E+12 5.6561IE+13 5.473.44 0.0182998 0.0190221 0.072322 0.5661958 0.589361 2.201342 6.35303E+12 5.6561IE+13 5.473.85 0.0182998 0.018299 0.0723901 0.5661958 0.5735781 2.2033581 6.35303E+12 5.5561IE+13 5.483.01 0.0182998 0.018492 0.0723901 0.5661958 0.5735781 2.20335781 6.35303E+12 5.5501E+13 5.483.01 0.0182998 0.018492 0.074457 0.5661958 0.5736174 2.203372 6.35303E+12 5.5816E+13 5.483.01 0.018298 0.018542 0.074457 0.5661958 0.573417	574377	6.35303E+12	5.63276E+13	5465.31	0.0211425	0.0216094	0.0724239	0.654149		
6.35303F+12 5.7546E+13 5.44.7 0.0211425 0.0200281 0.0708824 0.654149 0.6196694 2.1602037 6.35303F+12 5.7546E+13 5.44.7 0.018298 0.0190671 0.0722642 0.5661958 0.5893961 2.1021353 6.35303F+12 5.65611F+13 5.473.44 0.0182998 0.0180721 0.072304 0.5661958 0.5893961 2.2021353 6.35303F+12 5.65611F+13 5478.95 0.0182998 0.018779 0.072304 0.5661958 0.573131 2.2023581 6.35303F+12 5.65611F+13 5478.95 0.0182998 0.018495 0.0740521 0.5661958 0.5733781 2.2053781 2.2	574378	6.35303E+12	5.65074E+13	5467.7	0.0211425	0.0211707	0.072225	0.654149		
6.35303E+12 5.65611E+13 5.475.86 0.0182998 0.0190671 0.0722642 0.5661958 0.5893361 2.2023153 6.35303E+12 5.65611E+13 5.478.46 0.0182998 0.0190271 0.072332 0.5661958 0.5885438 2.201342 6.35303E+12 5.65611E+13 5.478.56 0.0182998 0.0182394 0.072320 0.5661958 0.5885438 2.201342 6.35303E+12 5.65611E+13 5.485.86 0.0182998 0.018398 0.07740521 0.5661958 0.5732724 2.2697143 6.35303E+12 5.52675E+13 5483.01 0.0182998 0.018495 0.0744757 0.5661958 0.5732724 2.2697143 6.35303E+12 5.52675E+13 5483.01 0.0182998 0.018492 0.0744757 0.5661958 0.572724 2.2697143 6.35303E+12 5.4816E+13 5485.01 0.0182998 0.018642 0.0744757 0.5661958 0.5772747 2.78171 6.35303E+12 5.4816E+13 5494.4 0.0182998 0.018642 0.0744893 0.5661958	574379	6.35303E+12	5.75462E+13	5464.7	0.0211425	0.0200281	0.0708824	0.654149		-
6.35303E+12 5.65611E+13 5.473.44 0.0182998 0.0190221 0.0722322 0.5661958 0.5661958 2.201342 2.201342 6.35303E+12 5.65611E+13 5.478.95 0.0182998 0.0182344 0.0723049 0.5661958 0.5661958 0.5791318 2.2035281 6.35303E+12 5.56511E+13 548.56 0.0182998 0.018495 0.074457 0.5661958 0.573781 2.2053281 6.35303E+12 5.56511E+13 548.70 0.0182998 0.018495 0.0744757 0.5661958 0.573781 2.205743 6.35303E+12 5.4816E+13 548.70 0.0182998 0.018642 0.0744757 0.5661958 0.5774827 2.205743 6.35303E+12 5.4816E+13 549.44 0.0182998 0.018642 0.0744757 0.5661958 0.5774827 2.205714 6.35303E+12 5.4816E+13 549.44 0.0182998 0.018642 0.074497 0.5661958 0.575349 2.702297 6.35303E+12 5.4816E+13 549.41 0.0182998 0.018643 0.074497<	574384	6.35303E+12	5.65611E+13	5475.86	0.0182998	0.0190671	0.0722642	0.5661958		0.2
6.35303F+12 5.65611E+13 5478.95 0.0182998 0.0187179 0.0723049 0.5661958 0.5735781 2.2035581 6.35303F+12 5.65611E+13 5485.86 0.0182998 0.0185384 0.0723961 0.5661958 0.5735781 2.2063372 6.35303F+12 5.56511E+13 5485.86 0.0182998 0.018495 0.0744757 0.5661958 0.5735781 2.2687143 6.35303F+12 5.5002F+13 5487.8 0.0182998 0.018495 0.0744757 0.5661958 0.5722353 2.2687143 6.35303F+12 5.4816F+13 5485.01 0.0182998 0.0186246 0.074832 0.5661958 0.5730459 0.5730459 6.35303F+12 5.4816F+13 5492.41 0.0186298 0.018646 0.0748172 0.5661958 0.5773482 2.2762347 6.35303F+12 5.4816F+13 5492.41 0.018646 0.0748172 0.5661958 0.5768149 2.778817 6.35303F+12 5.4107FE+13 5491.83 0.018644 0.0757711 0.5356921 0.5756119 0.5756119 <td>574384</td> <td>6.35303E+12</td> <td>5.65611E+13</td> <td>5473.44</td> <td>0.0182998</td> <td>0.0190221</td> <td>0.0722322</td> <td>0.5661958</td> <td></td> <td></td>	574384	6.35303E+12	5.65611E+13	5473.44	0.0182998	0.0190221	0.0722322	0.5661958		
6.35303F+12 5.65611F+13 5485.86 0.0182998 0.0185384 0.0723961 0.5661958 0.5735781 2.2687342 2.2588058 6.35303F+12 5.2675F+13 5483.01 0.0182998 0.018495 0.0740521 0.5661958 0.5722353 2.2680743 6.35303F+12 5.5067F+13 5483.01 0.0182998 0.018495 0.074757 0.5661958 0.5722353 2.2697143 6.35303F+12 5.4816F+13 5485.01 0.0182998 0.018291 0.0747532 0.5661958 0.5730459 2.2880717 2.278171 6.35303F+12 5.4816F+13 5495.41 0.0182998 0.0186546 0.0748172 0.5661958 0.5773482 2.278247 6.35303F+12 5.4816F+13 5492.41 0.0186546 0.0747901 0.5661958 0.5773482 2.278247 6.35303F+12 5.4107FF+13 5492.41 0.018643 0.075771 0.5356921 0.5768144 2.3088909 6.35303F+12 5.4107FF+13 5499.47 0.01186041 0.075771 0.5356921 0.5756117 <t< td=""><td>574384</td><td>6.35303E+12</td><td>5.65611E+13</td><td>5478.95</td><td>0.0182998</td><td>0.0187179</td><td>0.0723049</td><td>0.5661958</td><td></td><td></td></t<>	574384	6.35303E+12	5.65611E+13	5478.95	0.0182998	0.0187179	0.0723049	0.5661958		
6.35303F+12 5.52675F+13 5483.01 0.0182998 0.018199B 0.0740521 0.566195B 0.5627924 2.56805B 2.526805B 6.35303F+12 5.500ZF+13 5487.88 0.018299B 0.018495 0.0744757 0.566195B 0.5722353 2.5697143 6.35303F+12 5.4816F+13 5485.01 0.018299B 0.018291 0.0746893 0.566195B 0.5730459 2.278171 6.35303F+12 5.4816F+13 5494.4 0.018299B 0.018664G 0.0748172 0.566195B 0.5773827 2.278171 6.35303F+12 5.4816F+13 5492.41 0.018299B 0.01864G 0.074901 0.566195B 0.5773827 2.278171 6.35303F+12 5.41076F+13 5492.41 0.018643 0.075711 0.5356921 0.5768144 2.3088909 6.35303F+12 5.41076F+13 5499.47 0.01186041 0.0757711 0.5356921 0.575611 2.301046 6.35303F+12 5.443FF+13 5499.81 0.0118042 0.0178481 0.075771 0.5356921 0.575601 0.5	574384	6.35303E+12	5.65611E+13	5485,86	0.0182998	0.0185384	0.0723961	0.5661958		
6.35303F+12 5.5002F+13 5487.88 0.0182998 0.018495 0.0744757 0.5661958 0.572233 2.2697143 6.35303F+12 5.4816F+13 5481.7 0.0182998 0.018291 0.074532 0.5661958 0.5730492 0.5730493 0.586077 2.778171 6.35303F+12 5.4816F+13 548.6 0.0182998 0.0185712 0.0748172 0.5661958 0.5730492 0.5730493 0.5730493 0.5730493 0.5730493 0.5730493 0.5730493 0.5730493 0.5730493 0.5761958 0.5730493 0.5730493 0.5730493 0.5761958 0.5730493 0.5761958 0.57730493 0.5761958 0.5761958 0.5761944 2.308999 0.5750493 0.01850493 0.0185049 0.0185049 0.0185049 0.0185049 0.0185049 0.0185049 0.075711 0.5356921 0.5756104 2.308999 0.575610 0.075711 0.575610 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 0.5756049 <	574385	6.35303E+12	5.52675E+13	5483,01	0.0182998	0.0181898	0.0740521	0.5661958	0.0	
6.35303F+12 5.4816F+13 5489.7 0.0182998 0.0189422 0.0747532 0.5661958 0.5860717 2.278171 6.35303F+12 5.4816F+13 5485.01 0.0182998 0.0185212 0.0746893 0.5661958 0.5730452 2.2762247 6.35303F+12 5.4816F+13 5494.4 0.0182998 0.018674 0.0748172 0.5661958 0.5774827 2.2801215 6.35303F+12 5.4816F+13 5492.41 0.0182998 0.0186275 0.074901 0.5661958 0.5773492 2.279257 6.35303F+12 5.41076F+13 5492.41 0.0182998 0.0186275 0.077711 0.5356921 0.5766198 0.5776814 2.3088909 6.35303F+12 5.41076F+13 5492.47 0.0173139 0.0186361 0.075711 0.5356921 0.575619 2.3121029 6.35303F+12 5.44076F+13 5499.47 0.0173139 0.018631 0.075711 0.5356921 0.5756012 0.575602 6.35303F+12 5.4438F+13 5532.69 0.01793139 0.0199842 0.0757127	574386	6.35303E+12	5.5002E+13	5487.88	0.0182998	0.018495	0.0744757	0.5661958		
6.35303F+12 5.4816F+13 5485.01 0.0182998 0.0185212 0.0746893 0.5661958 0.5730459 2.7562247 6.35303F+12 5.4816F+13 5494.4 0.0182998 0.018646 0.0748172 0.5661958 0.5774827 2.730215 6.35303F+12 5.4816F+13 5492.41 0.0182998 0.018673 0.074901 0.5661958 0.5763349 2.779257 6.35303F+12 5.41076F+13 5492.41 0.0182998 0.018643 0.075761 0.53661958 0.5763349 2.779257 6.35303F+12 5.41076F+13 5492.47 0.0173139 0.0186361 0.075771 0.5356921 0.5766009 2.301936 6.35303F+12 5.44076F+13 5499.47 0.0173139 0.0186041 0.075771 0.5356921 0.5756102 0.5756102 6.35303F+12 5.4437F+13 5592.69 0.01793139 0.0190842 0.0757157 0.5356921 0.5904651 2.3075042 6.35303F+12 5.4543F+13 5556.48 0.01793139 0.01998275 0.0755757 0.5356921 <	574387	6.35303E+12	5.4816E+13	5489.7	0.0182998	0.0189422	0.0747532	0.5661958	2	
6.35303F+12 5.4816F+13 5494.4 0.0182998 0.0186646 0.0748172 0.5661958 0.5774827 2.2801215 6.35303F+12 5.4816F+13 5492.41 0.0182998 0.018673 0.0747901 0.5661958 0.5763349 2.2792957 6.35303F+12 5.441076F+13 5492.41 0.0182998 0.018643 0.075712 0.55661958 0.5768144 2.3088909 6.35303F+12 5.41076F+13 5492.87 0.0173139 0.0186361 0.075711 0.5356921 0.576609 2.301336 6.35303F+12 5.41076F+13 5499.47 0.0173139 0.0186301 0.0758666 0.5356921 0.5756109 2.301336 6.35303F+12 5.4437E+13 5499.47 0.0173139 0.0186301 0.0754881 0.5356921 0.575610 2.3074946 6.35303E+12 5.4437E+13 5532.69 0.0173139 0.0190842 0.0757137 0.5356921 0.507642 0.5356921 0.507642 0.5356921 0.507642 0.5356921 0.507642 0.5356921 0.507642 0.5356921	574387	6.35303E+12	5,4816E+13	5485.01	0.0182998	0.0185212	0.0746893	0.5661958		
6.35303F+12 5.4816F+13 5492.41 0.0182998 0.0186275 0.0747901 0.5661958 0.5763349 2.7292957 6.35303F+12 5.41076F+13 5491.83 0.0173139 0.018634 0.075761 0.5365921 0.5768144 2.3088909 6.35303F+12 5.41076F+13 5492.55 0.0173139 0.0186301 0.075711 0.5356921 0.576609 2.3091936 6.35303F+12 5.41076F+13 5499.47 0.0173139 0.0186041 0.0758666 0.5356921 0.5756109 2.3011029 6.35303F+12 5.36713F+13 5499.47 0.0173139 0.0186041 0.0758666 0.5356921 0.5756109 2.3121029 6.35303F+12 5.36743F+13 5532.69 0.0173139 0.0190842 0.0757137 0.5356921 0.5904651 2.3075042 6.35303E+12 5.443E+13 5532.69 0.0173139 0.0190842 0.0757137 0.5356921 0.6134629 2.307528 6.35303E+12 5.443E+13 554.48 0.0173139 0.019987 0.0755729 0.5356921	574387	6.35303E+12	5.4816E+13	5494.4	0.0182998	0.0186646	0.0748172	0.5661958		
6.35303F+12 5.41076F+13 5491.83 0.0173139 0.018643 0.0757612 0.5356921 0.5768144 2.3088909 6.35303F+12 5.41076F+13 5492.55 0.0173139 0.0186361 0.075771 0.5356921 0.576609 2.309136 6.35303F+12 5.41076F+13 5499.47 0.0173139 0.0186041 0.0758666 0.5356921 0.5756109 2.3121029 6.35303F+12 5.36713F+13 5499.47 0.0173139 0.01885912 0.075866 0.5356921 0.5756109 2.3121029 6.35303F+12 5.36713F+13 5592.69 0.0173139 0.0190842 0.0757157 0.5356921 0.5756117 2.331046 6.35303F+12 5.4543F+13 5584.48 0.0173139 0.0199275 0.0757737 0.5356921 0.6134629 2.307528 6.35303F+12 5.4543F+13 5584.48 0.0173139 0.0199279 0.0757737 0.5356921 0.6124573 2.3207628 6.35303F+12 5.38779E+13 5538.44 0.0173139 0.02088 0.0767299 0.5356921	574387	6.35303E+12	5.4816E+13	5492.41	0.0182998	0.0186275	0.0747901	0.5661958		
6.35303E+12 5.41076E+13 549.55 0.0173139 0.0186361 0.0757711 0.5356921 0.5766009 2.3091936 6.35303E+12 5.41076E+13 549.47 0.0173139 0.0186041 0.0758666 0.5356921 0.5756109 2.312029 6.35303E+12 5.36713E+13 549.81 0.0173139 0.0185912 0.0764881 0.5356921 0.5752117 2.3310446 6.35303E+12 5.4543E+13 553.69 0.0173139 0.0190842 0.0757157 0.5356921 0.5904651 2.3075042 6.35303E+12 5.4543E+13 5536.93 0.0173139 0.0198275 0.0757737 0.5356921 0.6134629 2.3092726 6.35303E+12 5.4543E+13 556.48 0.0173139 0.019795 0.0767509 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6124573 2.3384139	574388	6.35303E+12	5.41076E+13	5491.83	0.0173139	0.018643	0.0757612	0.5356921		
6.35303E+12 5.41076E+13 5499,47 0.0173139 0.0186041 0.0758666 0.5356921 0.5756109 2.312029 6.35303E+12 5.36713E+13 549.81 0.0173139 0.0185912 0.0764881 0.5356921 0.5752117 2.3310446 6.35303E+12 5.4543E+13 553.69 0.0173139 0.0190842 0.0757157 0.5356921 0.5904651 2.3075042 6.35303E+12 5.4543E+13 5536.93 0.0173139 0.0198275 0.0757737 0.5356921 0.6134629 2.3092726 6.35303E+12 5.4543E+13 5564.48 0.0173139 0.019995 0.07675299 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6124573 2.3384139	574388	6.35303E+12	5.41076E+13	5492.55	0.0173139	0.0186361	0.0757711	0.5356921		
6.35303E+12 5.36713E+13 5.499.81 0.0173139 0.0185912 0.0764881 0.5356921 0.5752117 2.3310446 6.35303E+12 5.4543E+13 553.69 0.0173139 0.0190842 0.0757157 0.5356921 0.5904651 2.3075042 6.35303E+12 5.4543E+13 5536.93 0.0173139 0.0198275 0.0757737 0.5356921 0.6134629 2.3092726 6.35303E+12 5.4543E+13 5564.48 0.0173139 0.019795 0.0761508 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6215227 2.3384139	574388	6.35303E+12	5.41076E+13	5499,47	0.0173139	0.0186041	0.0758666	0.5356921		
6.35303E+12 5.4543E+13 5532.69 0.0173139 0.0190842 0.0757157 0.5356921 0.5904651 2.3075042 6.35303E+12 5.4543E+13 5536.93 0.0173139 0.0198275 0.0757737 0.5356921 0.6134629 2.3092726 6.35303E+12 5.4543E+13 5564.48 0.0173139 0.019795 0.0767299 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6215227 2.3384139	574390	6.35303E+12	5.36713E+13	5499.81	0.0173139	0.0185912	0.0764881	0.5356921	1	
6.35303E+12 5.4543E+13 5536.93 0.0173139 0.0198275 0.0757737 0.5356921 0.6134629 2.3092726 6.35303E+12 5.4543E+13 5564.48 0.0173139 0.019795 0.0761508 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6215277 2.3384139	574393	6.35303E+12	5.4543E+13	5532.69	0.0173139	0.0190842	0.0757157	0.5356921		
6.35303E+12 5.4543E+13 5.564,48 0.0173139 0.019795 0.0761508 0.5356921 0.6124573 2.3207628 6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6215227 2.3384139	574393	6.35303E+12	5.4543E+13	5536.93	0.0173139	0.0198275	0.0757737	0.5356921		
6.35303E+12 5.38779E+13 5538.44 0.0173139 0.020088 0.0767299 0.5356921 0.6215227 2.3384139	574393	6.35303E+12	5.4543E+13	5564.48	0.0173139	0.019795	0.0761508	0.5356921		
	574394	6.35303E+12	5.38779E+13	5538.44	0.0173139	0.020088	0.0767299	0.5356921		

2.2673468	2.2675111	2.2656627	2.2667759	2.2721114	2.2717869	2.3140947	2.3155521	2.3190142	2.3394943	2.3449871	2.3571303	2.3607386	2.3566613	2.3570036	2,42429	2.4267736	2.4355582	2.4425761	2.4393714	2.4640783	2.4523071	2.4680679	2.4494541	2.4228448	2.3809636	2.3660567	2.3703744	2.3741451	2.3814156	2.3724172	2.3587711	2.3707646	2.3695926	2.3822095	2.3907994	2.3923786	2.4694857	2.46387	2.4285046	2.4378128	2.4816407	2.475335	2.5102894	2.5138174	2.5086707	2.4783037
2.2673468	2.2675111	2.2656627	2.2667759	2.2721114	2.2717869	2.3140947	2.3155521	2.3190142	2.3394943	2.3449871	2.3571303	2.3607386	2.3566613	2.3570036	2.42429	2.4267736	2.4355582	2.4425761	2.4393714	2.4640783	2.4523071	2.4680679	2.4494541	2.4228448	2.3809636	2.3660567	2.3703744	2.3741451	2.3814156	2.3724172	2.3587711	2.3707646	2.3695926	2.3822095	2.3907994	2.3923786	2.4694857	2.46387	2.4285046	2,4378128	2.4816407	2.475335	2.5102894	2.5138174	2.5086707	2.4783037
0.6125749	0.6139177	0.602968	0.6021543	0.60083	0.5951278	0.5937293	0.5939335	0.59691	0.5856571	0.5932312	0.5900877	0.5928259	0.6086207	0.6103224	0.6197591	0.6247188	0.6188526	0.6217857	0.6216094	0.6265814	0.6254923	0.6480012	0.6323858	0.6943864	0.6343164	0.6318876	0.6171478	0.6258358	0.6338307	0.7075143	0.6502938	0.6785699	0.6812245	0.6737278	0.7218085	0.738677	1.3976124	0.7885802	0.7070687	0.7327273	0.6978579	0.8021659	0.796179	0.8047711	0.8017451	0.7065953
0.5356921	0.5356921	0.5356921	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5557628	0.5622046	0.5622046	0.5622046	0.5622046	0.5622046	0.5622046	0.5622046	0.5622046	0.5622046	0,5622046	0.5622046	0.5622046	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.5876867	0.7421547	0.7421547	0.7421547	0.7421547	0.7421547	0.7421547	0.7421547	0.7421547	0.7421547
0.074398	0.0744034	0.0743428	0.0743793	0.0745544	0.0745437	0.075932	0.0759798	0.0760934	0.0767654	0.0769456	0.0773441	0.0774625	0.0773287	0.0773399	0.0795478	0.0796293	0.0799175	0.0801478	0.0800426	0.0808533	0.0804671	0.0809843	0.0803735	0.0795004	0.0781261	0.077637	0.0777787	0.0779024	0.0781409	0.0778457	0.0773979	0.0777915	0.077753	0.078167	0.0784489	0.0785007	0.0810308	0.0808465	0.0796861	0.0799915	0.0814296	0.0812227	0.0823697	0.0824854	0.0823165	0.0813201
0.0197988	0.0198422	0.0194883	0.019462	0.0194192	0.0192349	0.0191897	0.0191963	0.0192925	0.0189288	0.0191736	0.019072	0.0191605	0.019671	0.019726	0.020031	0.0201913	0.0200017	0.0200965	0.0200908	0.0202515	0.0202163	0.0209438	0.0204391	0.022443	0.0205015	0.020423	0.0199466	0.0202274	0.0204858	0.0228673	0.0210179	0.0219318	0.0220176	0.0217753	0.0233293	0.0238745	0.0451717	0.0254874	0.0228529	0.0236822	0.0225552	0.0259265	0.025733	0.0260107	0.0259129	0.0228376
0.0173139	0.0173139	0.0173139	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0179626	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0181708	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0189944	0.0239869	0.0239869	0.0239869	0.0239869	0.0239869	0.0239869	0.0239869	0.0239869	0.0239869
5520.08	5520.48	5515,98	5518.69	5531.68	5530.89	5541.2	5544.69	5552.98	5536.99	5549.99	5578.73	5587.27	5577.62	5578.43	5585.77	5570.36	5563.2	5579.23	5571.91	5570.27	5562.53	5598.28	5622.51	5610.46	5697.34	2660.07	5661.93	5688.4	5705.82	5684.26	5675.94	5704.8	5701.98	5732.34	5753.01	5756.81	5791.51	5778.34	5695.4	5717.23	5730.11	5715.55	5734.99	5743.05	5725.93	5733.81
5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.44713E+13	5.44713E+13	5.44713E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.24135E+13	5.22154E+13	5.19602E+13	5.19602E+13	5.19602E+13	5.14241E+13	5.15991E+13	5.15991E+13	5.22163E+13	5.26766E+13	5.44332E+13	5,44179E+13	5.43366E+13	5.45039E+13	5.45039E+13	5.45039E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5,4739E+13	5.33495E+13	5.33495E+13	5.33495E+13	5.33495E+13	5.25253E+13	5.25253E+13	5.19701E+13	5.19701E+13	5.19215E+13	5.263E+13
395 6.35303E+12	574395 6.35303E+12	395 6.35303E+12	395 6.35303E+12	395 6.35303E+12	395 6.35303E+12	396 6.35303E+12	396 6.35303E+12	396 6.35303E+12	397 6.35303E+12	398 6.35303E+12	399 6.35303E+12	400 6.35303E+12	400 6.35303E+12	400 6.35303E+12	401 6.35303E+12	402 6.35303E+12	402 6.35303E+12	404 6.35303E+12	405 6.35303E+12	406 6.35303E+12		408 6.35303E+12	409 6.35303E+12				410 6.35303E+12			574410 6.35303E+12			412 6.35303E+12	412 6.35303E+12	412 6.35303E+12	413 6.35303E+12	413 6.35303E+12	414 6.35303E+12	414 6.35303E+12		419 6.35303E+12					
45:31.1 574395	50:33.9 5743	55:36.8 574395	00:39.8 574395	05:43.2 574395	10:46.2 574395	15:49.8 574396	20:52.7 574396	25:55.6 574396	30:58.6 574397	36:02.2 574397	41:05.2 574397	46:08.4 574397	51:11.5 574397	56:14.6 574397	01:18.0 574398	06:21.5 574399	11:24.3 574400	16:27.3 574400	21:30.3 574400	26:33.2 574401	31:36.5 574402	36:39.4 574402	41:42.1 574404	46:45.3 574405		56:50.9 574407	06:56.4 574408	11:59.9 574409										02:31.0 574412	07:34.0 574412	12:36.8 574412	22:41.7 574413	27:44.8 574413	32:47.7 574414	37:50.9 574414	42:53.7 574416	47:56.5 574419

2.4665598	2.4552707	2.4619458	2.4492125	2.4532005	2,445569	2.4376872	7,4595505	7.2234257	2.454819	2.4864117	2.4867897	2.4817972	2.5150298	2.5146504	2.5216605	2.5358831	2.5319972	2.5410953	2.5444533	2.5466002	2.5427144	2.6203068	2.6052295	2.5988485	2.6111164	2.6173216	2.620727	2.6130745	2.6097702	2.6338056	2.5858866	2.5900343	2.4738132	2,4697096	2,4696537	2.4715738	2.4698426	2.47759	2.4808199	2.4796829	2.5143244	2.5238421	2,5299985	2.5350885	2.5312392	2.5195561
										7			16			13		, ,					-			-					, ,	13		-			30									
2,4665598	2.4552707	2.4619458	2.4492125	2.4532005	2.445569	2.4376872	2.4446732	2.4531574	2.454819	2.4864117	2.4867897	2.4817972	2.5150298	2.5146504	2.5216605	2.5358831	2.5319972	2.5410953	2.5444533	2.5466002	2.5427144	2.6203068	2.6052295	2.5988485	2.6111164	2.6173216	2.620727	2.6130745	2.6097702	2.6338056	2.5858866	2.5900343	2.4738132	2.4697096	2,4696537	2.4715738	2.4698426	2.47759	2,4808199	2.4796829	2.5143244	2.5238421	2.5299985	2.5350885	2.5312392	2.5195561
1.1427875	0.739794	0.6894762	0.6868989	0.6892071	0.8900231	1,5319879	7,4595505	7,2234257	1.5407532	0.8788569	0.8876903	0.8951654	0.7555734	0.7092995	0.733872	0.7390823	0.7503631	0.7498	0.7525877	0.7801769	0.7809813	1,5079506	0.9036275	1.5005529	0.8447889	0.7530456	0.7830141	0.8633312	0.82896	1.5216075	0.8545752	0.847954	1.5257349	1.0933701	0.8428365	0.8073607	0.8147894	0.7791063	0.7861668	0.7956345	0.7912657	0.8840239	1.0889766	0.8783062	0.8439813	0.8409585
0.7421547	0.7421547	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8472764	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8689406	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.8691046	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431	0.9485431
0.0809348	0.0805643	0.0807834	0.0803655	0.0804964	0.080246	0.0799874	0.0802166	0.080495	0.0805495	0.0815862	0.0815986	0.0814347	0.0825252	0.0825128	0.0827428	0.0832095	0.0830819	0.0833805	0.0834907	0.0835611	0.0834336	0.0859796	0.0854849	0.0852755	0.0856781	0.0858817	0.0859934	0.0857423	0.0856339	0.0864226	0.0848502	0.0849863	0.0811728	0.0810381	0.0810363	0.0810993	0.0810425	0.0812967	0.0814027	0.0813654	0.0825021	0.0828144	0.0830164	0.0831834	0.0830571	0.0826737
0.0369356	0.0239106	0.0222843	0.022201	0.0222756	0.0287661	0.0495148	0.2410973	0.2334656	0.0497981	0.0284052	0.0286907	0.0289323	0.0244206	0.022925	0.0237192	0.0238876	0.0242522	0.024234	0.0243241	0.0252158	0.0252418	0.0487379	0.0292058	0.0484988	0.0273041	0.0243389	0.0253075	0.0279034	0.0267925	0.0491793	0.0276204	0.0274064	0.0493127	0.0353384	0.027241	0.0260944	0.0263345	0.0251812	0.0254094	0.0257154	0.0255742	0.0285722	0.0351964	0.0283874	0.027278	0.0271803
0.0239869	0.0239869	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0273845	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.0280847	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.02809	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575	0.0306575
5702.24	5674.41	5686.55	5686.98	5696.24	5678.52	5680.01	5679.28	5698.99	5702.85	5722.4	5723.27	5711.78	5700.85	5699.99	5715.88	5716.7	5707,94	5728.45	5736.02	5740.86	5732.1	5725.7	5720.02	5706.01	5720.99	5725.87	5733.32	5729.99	5727.98	5746.56	5735.82	5745.02	5751.06	5741.52	5741.39	5739.18	5735.16	5753.15	5760.65	5758.01	5763.51	5760.01	5750.9	5762.47	5753.72	5754.06
5.25895E+13	5.25734E+13	5.2543E+13	5.28202E+13	5.28202E+13	5.28202E+13	5.30049E+13	5,28466E+13	5.28466E+13	5.28466E+13	5.2354E+13	5.2354E+13	5.2354E+13	5.15634E+13	5.15634E+13	5.15634E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	4.97074E+13	4.99455E+13	4.99455E+13	4.98413E+13	4.97656E+13	4.97656E+13	4.98823E+13	4.9928E+13	4.96328E+13	5.04581E+13	5.04581E+13	5.28842E+13	5.28842E+13	5.28842E+13	5.28228E+13	5.28228E+13	5.28228E+13	5.28228E+13	5.28228E+13	5.21447E+13	5.19166E+13	5.17083E+13	5.17083E+13	5.17083E+13	5.19511E+13
	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12		6.35303E+12	6.35303E+12																																				
574420	574421	574422	574424	574424	574424	574426	574427	574427	574427	574428	574428	574428	574429	574429	574429	574430	574430	574430	574430	574430	574430	574431	574432	574432	574433	574435	574435	574437	574438	574439	574441	574441	574442	574442	574442	574443	574443	574443	574443	574443	574444	574445	574446	574446	574446	574448
52:59.1	58:01.8	03:04.8	08:08:0	13:10.8	18:13.9	23:16.6	28:20.7	33:24.6	38:27.3	43:30.1	48:33.4	53:36.4	58:39.1	03:41.9	08:44.7	13:47.4	18:50.2	23:53.1	28:55.9	33:59.1	44:04.4	49:07.5	54:10.5	59:14.1	04:17.2	09:20.1	14:23.0	19:26.3	24:29.2	29:32.2	34:35.1	39:38.1	44:40.9	49:44.5	54:47.4	59:50.5	04:53.3	09:56.1	14:59.6	20:02.9	25:05.9	30:08.6	35:11.4	40:15.1	45:17.8	50:20.6

6 2.5043706				7 2.5183117										
0.946238 2.5043706	0.8506582 2.5052726	0.79259 2.498940	0.8107146 2.507086	0.8209558 2.5183117	0.8112313 2.516348	0.8138365 2.513755	0.8047494 2.518157	0.822509 2.520490	0.8262682 2.549745	0.7886235 2.541762	0.7651895 2.534861	0.7556538 2.538802	0.7923579 2.539398	
0.9485431	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9224483	0.9986009	
0.0821754	0.082205	0.0819973	0.0822646	0.0826329	0.0825685	0.0824834	0.0826278	0.0827044	0.0836643	0.0834024	0.0831759	0.0833053	0.0833248	
0.030583	0.0274938	0.025617	0.0262028	0.0265338	0.0262195	0.0263037	0.02601	0.026584	0.0267055	0.0254888	0.0247314	0.0244232	0.0256095	
0.0306575	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0298141	0.0322754	
5719.38	5721.44	5706.98	5701.52	5720.36	5715.9	5710.01	5720.01	5725.31	5714.39	5720.01	5704.48	5713.35	5714.69	000
5.19511E+13	5.19511E+13	5.19511E+13	5.17328E+13	5.16724E+13	5.16724E+13	5.16724E+13	5.16724E+13	5.16724E+13	5.09821E+13	5.11925E+13	5.11925E+13	5.11925E+13	5.11925E+13	
8 6.35303E+12	8 6.35303E+12	574448 6.35303E+12	9 6.35303E+12	0 6.35303E+12	0 6.35303E+12	0 6.35303E+12	0 6.35303E+12	0 6.35303E+12	2 6.35303E+12	1 6.35303E+12	4 6.35303E+12	1 6.35303E+12	1 6.35303E+12	
574448	574448	574448	574445	57445C	57445C	574450	574450	574450	574452	574454	574454	574454	574454	LANKA
55:23.5	00:26.7	05:29.8	10:32.8	15:35.6	20:38.2	25:41.0	30:43.8	35:46.6	40:49.3	45:52.2	50:55.0	55:58.0	01:00.9	7 50.90

FILE PRODUCED NATIVELY

HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

mining_rev_realized_rev			2.2810714 2.281071	2.2806129 2.280613	2.2251767 2.225177	2.2251893 2.225189	2.2452223 2.245222	2.2441815 2.244182	2.2659373 2.265937			2.2689395 2.26894	2.2595592 2.259559	2.1855639 2.185564	2.1962672 2.196267	2.1668382 2.166838	2.1668382 2.166838	2.1682995 2.1683	2.1682995 2.1683	2.1864882 2.186488	2,187116 2,187116	2.1667245 2.166725	2.1657754 2.165775	2.1710246 2.171025	2.1684142 2.168414	2.1649441 2.164944	2.1785089 2.178509	2.1787132 2.178713	2.1835838 2.183584	2.2004762 2.200476	2.1688293 2.168829	2.1730133 2.173013	2,1738558 2,173856	2.1978165 2.197817	2.2000077 2.200008	2.2143761 2.214376	2.2132209 2.213221	2.2132168 2.213217	2.222815 2.222815	2.2230187 2.223019	2.2308695 2.23087	2.2282664 2.228266	2.2302208 2.230221	2.283406 2.283406	2.2819871 2.281987			
al_time_LMP_rev_m 0.1501518_2		0.1813239 2	0.1424447 2	0.1017091 2	0.0596276 2	0.2191913 2	0.0201822 2	0.0701534 2	-0.1154433 2	-0.2695245 2	0.0186939 2	0.0271003 2	-0.594608 2	-0.9847676 2	-0.9557335 2	-0.9348397 2	-0.8314877 2	-0.9645638 2	-0.993833 2	-0.96681	-0.0966071	-0.5964397 2	-0.5460137 2	-0.8597391 2	-0.9372035 2	-0.8144862 2		-0.6178749 2	-0.6068169 2	-0.909045	-0.7335626 2	-0.583581 2	-0.9565844 2	-0.9401985 2	-0.9366992	-0.8681578 2	-0.8732444 2	-0.8308473 2	-0.8483067	-0.8478395 2	-0.894445 2	-0.8715489 2	-0.8139602 2	-0.8137653	-0.0876004 2			
ahead_LMP_rev_rei	0.1788332	0.1788332	0.1788332	0.1788332	0.1788332	0.1788332	0.1788332	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0257266	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0082857	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0058972	0.0843734	0.0843734	0.0843734	0.0843734	20000
BTC_price day_ahead_LMP real_time_LMP breakeven_mining_cost day_ahead_LMP_rev real_time_LMP_rev 5320.43 0.00578 0.004853 0.1501518	0.0737656	0.0737652	0.0748484	0.0748333	0.0730143	0.0730147	0.0736721	0.0736379	0.0743518	0.0743412	0.0744545	0.0744503	0.0741425	0.0717145	0.0720657	0.0711001	0.0711001	0.071148	0.071148	0.0717448	0.0717654	0.0710963	0.0710652	0.0712374	0.0711518	0.0710379	0.071483	0.0714897	0.0716495	0.0722038	0.0711654	0.0713027	0.0713303	0.0721165	0.0721884	0.0726599	0.072622	0.0726219	0.0729368	0.0729435	0.0732011	0.0731157	0.0731798	0.074925	0.0748784	0.0747801	0.0748091	
eal_time_LMP bre 0.004853	0.0059132	0.0058605	0.0046039	0.0032873	0.0019272	0.0070844	0.0006523	0.0022674	-0.0037312	-0.0087112	0.0006042	0.0008759	-0.0192181	-0.0318283	-0.0308899	-0.0302146	-0.0268742	-0.0311753	-0.0321213	-0.0312479	-0.0031224	-0.0192773	-0.0176475	-0.0277873	-0.030291	-0,0263247	-0.0194362	-0.0199701	-0.0196127	-0.0293809	-0.0237092	-0.0188617	-0.0309174	-0.0303878	-0.0302747	-0.0280594	-0.0282238	-0.0268535	-0.0274178	-0.0274027	-0.028909	-0.028169	-0.0263077	-0.0263014	-0.0028313	-0.0008554	-0.0182652	
ay_ahead_LMP r 0.00578	0.00578	0.00578	0.00578	0.00578	0.00578	0.00578	0.00578	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0008315	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0002678	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.0001906	0.002727	0.002727	0.002727	0.002727	
37C_price d 5320,43	5320.01	5319.98	5323.01	5321.94	5326.51	5326.54	5328.24	5325.77	5325.77	5325.01	5321.31	5321.01	5326.26	5327.73	5321.02	5323.1	5323.1	5326.69	5326.69	5328.81	5330,34	5326.73	5330.77	5343.69	5336.9	5333.74	5331.57	5332.07	5343.99	5343.99	5328.81	5339.09	5341.16	5346.19	5351.52	5348.15	5345.36	5345.35	5345.57	5346.06	5364.94	5358.68	5363,38	5374.99	5371.65	5364.6	5366.68	0 0
t_network_hashrate 5.38327E+13	5.38327E+13	5.38327E+13	5.30839E+13	5.30839E+13	5.44532E+13	5.44532E+13	5,39845E+13	5.39845E+13	5,34662E+13	5.34662E+13	5.33477E+13	5.33477E+13	5.36221E+13	5.54528E+13	5.51131E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.54406E+13	5.54406E+13	5.59245E+13	5.59914E+13	5.59914E+13	5.59876E+13	5.60441E+13	5.56725E+13	5.56725E+13	5.56725E+13	5.52451E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.53347E+13	5.53347E+13	5.49411E+13	5,49411E+13	5,49411E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.47061E+13	5.35475E+13	5.35475E+13	5.35475E+13	5.35475E+13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
datetime block_height network_diff est_network_hashrate 19:54,2 574204 6:35303E+12 5.38327E+13	574204 6.35303E+12	574204 6.35303E+12	574205 6.35303E+12			5			574208 6.35303E+12	574208 6.35303E+12	574209 6.35303E+12	574209 6.35303E+12	574210 6.35303E+12		574213 6.35303E+12	574215 6.35303E+12						574219 6.35303E+12					574227 6.35303E+12	574227 6.35303E+12	574227 6.35303E+12	574228 6.35303E+12		574229 6.35303E+12						574231 6.35303E+12			574232 6.35303E+12	574232 6.35303E+12	574232 6.35303E+12	574233 6.35303E+12	574233 6.35303E+12	574233 6.35303E+12	574233 6.35303E+12	
datetime block_h 19:54.2 57	24:57.5 57									10:26.1 57	15:29.1 57			30:39.1 57	35:42.2 57																							31:52.1 57				52:04.7 57	57:07.9	02:11.0 57	07:14.0 57	12:17.0 57	17:20.3 57	

A 30.70	574734 6 353035±17	5 31615E±13	5359 18	7676000	01071100	5553500	ACTCA90.0	COLUMN DESCRIPTION OF THE PROPERTY OF
32:29.3		5.31615E+13	5349.69	0.002727	-0.0033411	0.0751138	0.0843734	
37:32.1		5.26774E+13	5347.97	0.002727	-0.016204	0.0757796	0.0843734	2.3094528
42:35.1	574236 6.35303E+12	5.29706E+13	5347.88	0.002727	-0.031637	0.075359	0.0843734	-0.9788488 2,2966332 2,296633
47:38.0	574237 6.35303E+12	5.26741E+13	5352.24	0.002727	-0.0303036	0.075845	0.0843734	-0.9375934 2.3114455 2.311446
52:40.8	574238 6.35303E+12	5.2719E+13	5350.15	0.002727	-0.0054995	0.0757508	0.0843734	-0.1701545 2.308573 2.308573
57:43.7		5.2719E+13	5357.76	0.002727	-0.0016084	0.0758585	0.0843734	-0.0497639 2.3118566 2.311857
02:46.6		5.28168E+13	5351.07	0.0122937	-0.0317924	0.0756235	0.3803671	-0.9836569 2.3046947 2.304695
07:49.3		5.25658E+13	5350.11	0.0122937	-0.0305799	0.075971	0.3803671	-0.9461421 2.3152833 2.315283
12:52.7		5.34165E+13	5352.35	0.0122937	-2.70E-06	0.0747924	0.3803671	-8.35E-05 2.2793657 2.279366
17:55.6		5.35108E+13	5355.51	0.0122937	0.0003845	0.0747047	0.3803671	0.0118964 2.2766932 2.276693
22:58.3		5.38531E+13	5358.7	0,0122937	0.000944	0.074274	0.3803671	0.0292074 2.2635674 2.263567
28:01.2		5.41667E+13	5358.74	0.0122937	-0.0033438	0.0738446	0.3803671	-0.1034572 2.2504797 2.25048
33:04.2	574246 6.35303E+12	5.41667E+13	5361.99	0.0122937	-0.001393	0.0738894	0.3803671	-0.0430994 2.2518446 2.251845
38:07.1	574246 6.35303E+12	5.41667E+13	5364.93	0.0122937	0.0048462	0.0739299	0.3803671	0.1499414 2.2530793 2.253079
43:10.0	574247 6.35303E+12	5.37144E+13	5365.93	0.0122937	-0.0155818	0.0745663	0.3803671	-0.4821009 2.2724742 2.272474
48:12.9	574249 6.35303E+12	5.43573E+13	5360.33	0.0122937	-0.0014069	0.0736074	0.3803671	-0.0435295 2.2432526 2.243253
53:15.7		5.52479E+13	5359.19	0.0122937	0.0018241	0.0724055	0.3803671	0.0564377 2.2066234 2.206623
58:18.7	574252 6.35303E+12	5.50584E+13	5357.99	0.0122937	0.0017661	0.0726385	0.3803671	0.0546431 2.2137229 2.213723
03:21.9		5.50584E+13	5360.64	0.0171962	0.0051394	0.0726744	0.5320504	0.159013 2.2148178 2.214818
08:26.1		5.55506E+13	5362,51	0.0171962	0.1603687	0.0720555	0.5320504	4.9618076 2.195957 4.961808
13:29.5		5.55733E+13	5360.24	0.0171962	0.01377	0.0719957	0.5320504	2.1941337
18:32.5		5.5978E+13	5358.19	0.0171962	0.0100579	0.0714478	0.5320504	0.3111914 2.1774367 2.177437
23:35.5		5.59531E+13	5367.35	0.0171962	0.0107012	0.0716018	0.5320504	0.3310951 2.1821286 2.182129
28:38.4		5.59531E+13	5368.93	0.0171962	0.0084507	0.0716229	0.5320504	
33:41.3		5,59531E+13	5368.01	0.0171962	0.0069194	0.0716106	0.5320504	2.182397
38:44.2		5.61961E+13	5368.01	0.0171962	0.0068217	0.071301	0.5320504	2.1729618
43:47.2		5.61961E+13	5363.48	0.0171962	0.0079017	0.0712408	0.5320504	2.1711281
48:50.1		5.61961E+13	5363.48	0.0171962	0.0076457	0.0712408	0.5320504	2.1711281
53:56.7		5.61961E+13	5368.74	0.0171962	0.0078845	0.0713107	0.5320504	2.1732573
58:59.6		5.61961E+13	5368.9	0.0171962	0.0094093	0.0713128	0.5320504	2.1733221
04:02.6	5/4258 6.35303E+12	5.61961E+13	5360.85	0.01/55//	0.0099461	0.0712059	0.5432352	2.1/00634
14:08.7	574260 6.353U3E+12	5.01301E+13	5364.69	0.0175577	0.0140156	0.0/120/3	0.5432352	0.433642/ 2.1/0108 2.1/0108
19:11.6		5.46276F+13	5368.72	0.0175577	0.0089289	0.0733579	0.5432352	2 2355/00
24:14.7		5,46276E+13	5366,48	0.0175577	0.0086263	0.0733273	0,5432352	2,2347162
29:17.6		5.46276E+13	5367.76	0.0175577	0.007468	0.0733448	0.5432352	2.2352492
34:20.8	574261 6.35303E+12	5.36607E+13	5366.92	0.0175577	0.0084062	0.0746547	0.5432352	2.2751678
39:23.6	574261 6.35303E+12	5.36607E+13	5366.01	0.0175577	0.007763	0.074642	0.5432352	0.2401872 2.2747821 2.274782
44:26.5	574261 6.35303E+12	5.36607E+13	5364.41	0.0175577	0.0087491	0.0746197	0.5432352	0.2706972 2.2741038 2.274104
49:29.5	574261 6.35303E+12	5.36607E+13	5364.3	0.0175577	0.0087159	0.0746182	0.5432352	0.2696699 2.2740572 2.274057
54:32.3	574261 6.35303E+12	5.36607E+13	5377.85	0.0175577	0.0108497	0.0748067	0.5432352	0.3356897 2.2798013 2.279801
59:35.3	574264 6.35303E+12	5.43564E+13	5373.82	0.0175577	0.008836	0.0737939	0.5432352	0.2733858 2.2489354 2.248935
04:38.1	574267 6.35303E+12	5.54387E+13	5366.58	0.0193084	0.0083686	0.0722558	0.5974019	0.2589245 2.2020604 2.20206
09:40.9		5.60115E+13	5356.55	0.0193084	0.0080606	0.0713832	0.5974019	0.249395 2.1754678 2.175468
14:43.6	574269 6.35303E+12	5.58958E+13	5342.94	0.0193084	0.0088646	0.0713492	0.5974019	0.2742707 2.1744317 2.174432
19:46.6		5.6144E+13	5354.22	0.0193084	0.0082941	0.0711837	0.5974019	0.2566195 2.1693883 2.169388
24:49.9		5.6095E+13	5356.83	0.0193084	0.0080762	0.0712807	0.5974019	0.2498776 2.1723438 2.172344
29:52.8	574271 6.35303E+12	5.6095E+13	5351.83	0.0193084	0.0079524	0.0712142	0.5974019	0.2460473 2.1703161 2.170316
34:55.7	574272 6.35303E+12	5.54087E+13	5355.01	0.0193084	0.0081254	0.0721391	0.5974019	2.1985034

39:58.5		5.53104E+13	5355.83	0.0193084	0.0085607	0.0722783	0.5974019	2.2027469
45:01.9		5.53441E+13	5354.54	0.0193084	0.0106324	0.072217	0.5974019	2.2008772
50:05.0		5.53441E+13	5352.64	0.0193084	0.0119823	0.0721913	0.5974019	0.3707324 2.2000962 2.200096
55:07.9		5,53441E+13	5355.99	0.0193084	0.0171955	0.0722365	0.5974019	0.5320288 2.2014732 2.201473
00:10.9		5.53441E+13	5375.12	0.021824	0.014679	0.0724945	0.6752346	0.4541683 2.2093362 2.209336
05:13.9	574274 6.35303E+12	5.53441E+13	5371.63	0.021824	0.0098275	0.0724475	0.6752346	0.3040628 2.2079017 2.207902
10:17.8	574274 6.35303E+12	5.53441E+13	5366.65	0.021824	0.0157044	0.0723803	0.6752346	0.4858941 2.2058548 2.205855
15:20.8	574274 6.35303E+12	5.53441E+13	5362.88	0.021824	0.0161219	0.0723295	0.6752346	0.4988116 2.2043052 2.204305
20:23.7		5.36343E+13	5367	0.021824	0.016142	0.0746925	0.6752346	0.4994335 2.2763203 2.27632
25:26.5	574275 6.35303E+12	5.36343E+13	5371.56	0.021824	0.0159439	0.0747559	0.6752346	0.4933043 2.2782544 2.278254
30:29.4		5,309E+13	5370.52	0.021824	0.0201562	0.0755079	0.6752346	0.6236328 2.3011697 2.30117
35:32.1		5,49235E+13	5373.23	0.021824	0.0193584	0.0730239	0.6752346	0.5989489 2.2254696 2.22547
40:35.0	574281 6.35303E+12	5.67946E+13	5385.74	0.021824	0.0173956	0.0707827	0.6752346	0.5382199 2.1571652 2.157165
45:37.8	574281 6.35303E+12	5,67946E+13	5380.67	0.021824	0.0172587	0.070716	0.6752346	0,5339842 2,1551345 2,155135
50:40.6	574281 6.35303E+12	5.67946E+13	5377.85	0.021824	0.0135506	0.070679	0.6752346	0.4192556 2.154005 2.154005
55:43.6	574282 6.35303E+12	5.6096E+13	5376.85	0.021824	0.0181589	0.0715459	0.6752346	0.5618364 2.1804251 2.180425
00:46.5	574282 6.35303E+12	5.6096E+13	5379.99	0.0237731	0.0180514	0.0715877	0.7355397	0.5585103 2.1816984 2.181698
05:49.7	574283 6.35303E+12	5.56063E+13	5400.03	0.0237731	0.0201106	0.0724871	0.7355397	0.622222 2.2091081 2.209108
10:52.9	574283 6.35303E+12	5.56063E+13	5401.02	0.0237731	0.0199693	0.0725003	0.7355397	0.6178501 2.2095131 2.209513
15:55.8	574283 6.35303E+12	5.56063E+13	5411.08	0.0237731	0.0212877	0.0726354	0.7355397	0.6586414 2.2136286 2.213629
20:59.8	574284 6.35303E+12	5.64188E+13	5401.02	0.0237731	0.0208648	0.0714563	0.7355397	0.6455569 2.177694 2.177694
26:03.1	574284 6.35303E+12	5.64188E+13	5401.31	0.0237731	0.0203588	0.0714601	0.7355397	0.6299013 2.1778109 2.177811
31:06.6	574285 6.35303E+12	5.57835E+13	5409.35	0.0237731	0.0207637	0.0723816	0.7355397	0.6424289 2.2058933 2.205893
36:09.6	574285 6.35303E+12	5.57835E+13	5396.6	0.0237731	0.0198566	0.072211	0.7355397	0.6143632 2.2006939 2.200694
41:12.5	574285 6.35303E+12	5.57835E+13	5405.56	0.0237731	0.0206568	0.0723309	0.7355397	0.6391214 2.2043478 2.204348
46:15.4		5.57835E+13	5401.1	0.0237731	0.0203991	0.0722712	0.7355397	0.6311482 2.202529 2.202529
51:18.8	574285 6.35303E+12	5.57835E+13	5400.14	0.0237731	0.0206351	0.0722583	0.7355397	0.63845 2.2021375 2.202138
56:21.7	574285 6.35303E+12	5.57835E+13	5401.59	0.0237731	0.0206066	0.0722777	0.7355397	0,6375682 2,2027288 2,202729
01:25.2	574285 6.35303E+12	5.57835E+13	5405.56	0.0248369	0.0206776	0.0723309	0.7684537	0.6397649 2.2043478 2.204348
06:28.3	574285 6.35303E+12	5.57835E+13	5409.65	0.0248369	0.0208352	0.0723856	0.7684537	0.6446411 2.2060156 2.206016
11:31.3	574286 6.35303E+12	5.36818E+13	5410.84	0.0248369	0.0207924	0.075236	0,7684537	0.6433169 2.2928844 2.292884
16:34.7	574287 6.35303E+12	5.50908E+13	5403.01	0.0248369	0.020789	0.0732057	0.7684537	0.6432117 2.2310097 2.23101
21:38.0	574287 6.35303E+12	5.50908E+13	5380.86	0.0248369	0.0208418	0.0729056	0.7684537	0.6448453 2.2218635 2.221864
26:41.1	574288 6.35303E+12	5.6446E+13	5384.99	0.0248369	0.0208444	0.0712098	0.7684537	0.6449257 2,1701832 2,170183
31:44.2		5.61643E+13	5388.52	0.0248369	0.0219035	0.071614	0.7684537	0.6776943 2.1824996 2.1825
36:47.6		5.61643E+13	5385.01	0.0248369	0.0219719	0.0715673	0.7684537	2.1810779
41:50.8		5.61643E+13	5382.53	0.0248369	0.0214093	0.0715343	0.7684537	2.1800735
46:53.8		5.61643E+13	5379.16	0.0248369	0.0219768	0.0714896	0.7684537	0.6799622 2.1787085 2.178709
51:56.9		5.59818E+13	5379.99	0.0248369	0.0220687	0.0717336	0.7684537	2.1861462
57:00.0		5.63654E+13	5381.68	0.0248369	0.0220272	0.0712679	0.7684537	2.1719525
02:02.8		5.66874E+13	5378.04	0.026102	0.0214717	0.0708151	0.8075959	2.1581537
07:05.8		5.71185E+13	5388.44	0.026102	0.0216698	0.0704165	0.8075959	2.1460054
12:09.0		5.69506E+13	5391.26	0.026102	0.0218279	0.070661	0.8075959	2.1534583
17:12.0		5.77593E+13	5388.44	0.026102	0.0242173	0.0696352	0.8075959	2.1221966
22:15.5	574298 6.35303E+12	5.77593E+13	5392.01	0.026102	0.0224338	0.0696814	0,8075959	0.6941018 2.1236027 2,123603
27:18.5	574298 6.35303E+12	5.77593E+13	5397.27	0.026102	0.0259045	0.0697494	0.8075959	0.8014852 2.1256743 2.125674
32:21.8		5.74492E+13	5392.2	0.026102	0.0266314	0.07006	0.8075959	0.8239755 2.1351406 2.135141
37:25.9		5.7613E+13	5391.27	0.026102	0.0850755	0.0698488	0.8075959	2.632236 2.1287047 2.632236
42:30.2		5.7613E+13	5391.55	0.026102	0.2222933	0.0698524	0.8075959	6.8777547 2.1288153 6.877755
47:34.8	574302 6.35303E+12	5.77583E+13	5397.52	0.026102	0.1579206	0.0697538	0.8075959	4.8860634 2.1258102 4.886063

6.35303E+12 5.77583E+13 5396.44 0.026102 6.35303E+12 5.8471E+13 5390.94 0.026102 6.35303E+12 5.8471E+13 5390.94 0.026102 6.35303E+12 5.8471E+13 5393.00 0.0283817 6.35303E+12 5.8526E+13 5393.00 0.0283817 6.35303E+12 6.00748E+13 5395.98 0.0283817 6.35303E+12 6.00748E+13 5395.99 0.0283817 6.35303E+12 6.00748E+13 5395.99 0.0283817 6.35303E+12 6.00748E+13 5395.99 0.0283817 6.35303E+12 6.00748E+13 5395.90 0.0283817 6.35303E+12 6.0075E+13 5395.90 0.0283817 6.35303E+12 6.0262E+13 5395.60 0.0283817 6.35303E+12 6.04051E+13 5395.40 0.0283817 6.35303E+12 6.04051E+13 5395.41 0.0283817 6.35303E+12 6.04051E+13 5395.41 0.0283817 6.35303E+12 6.04051E+13 5395.41 0.0283817
6.35303E+12 5.877E+13 5396.44 0.026102 0.1796511 6.35303E+12 5.8471E+13 5391.58 0.026102 0.1776521 6.35303E+12 5.8471E+13 5393.02 0.0283817 0.02214449 6.35303E+12 5.8471E+13 5393.02 0.0283817 0.0224449 6.35303E+12 6.00748E+13 5393.02 0.0283817 0.024449 6.35303E+12 6.00748E+13 5395.98 0.0283817 0.0265791 6.35303E+12 6.00748E+13 5395.98 0.0283817 0.0265791 6.35303E+12 6.00748E+13 5395.99 0.0283817 0.026079 6.35303E+12 6.00748E+13 5395.99 0.0283817 0.0360474 6.35303E+12 5.9905E+13 5395.6 0.0283817 0.0360474 6.35303E+12 5.9905E+13 5395.7 0.0380741 0.036045 6.35303E+12 5.9905E+13 5392.4 0.0380741 0.036045 6.35303E+12 6.17749E+13 5392.4 0.0283817 0.026094 6.35303E+12 </td
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6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+12 6.35303E+13 6.35303E+12 6.35303E+13 6.35303E+13 6.35303E+13 6.35303E+13 6.35303E+13 6.35303E+13 6.35303E+12 6.35303E+13 6.35303E+12 6.35303E+13 6.35303E+12 6.35303E+13 6.3530
6.353036+12 6.353036+12

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15:23.2		6.04407E+13	5403.84	0.0292151	0.0270874	0.0667361	0.9039152	0.8380842 2.0329364 2.032936
20:26.3	574340 6.35303E+12	6.01388E+13	5404.02	0.0292151	0.0266421	0.0670734	0.9039152	2.044123
30:31.9	574342 6.35303E+12	6.0482E+13	5405.55	0.0292151	0.0261271	0.0667116	0.9039152	14
35:34.8		5.99395E+13	5400.01	0.0292151	0.0267626	0.0672465	0.9039152	0.8280348 2.0493965 2.049397
40:37.9		5.99395E+13	5399,02	0.0292151	0.0266166	0.0672341	0.9039152	0.8235176 2.0490207 2.049021
45:41.0		5.95861E+13	5399.01	0.0292151	0.0272594	0,0676328	0.9039152	0.8434058 2.0611697 2.06117
50:43.8		5.95861E+13	5394.85	0.0292151	0.0266036	0.0675807	0.9039152	
55:46.5		5.95861E+13	5398.35	0.0292151	0.0268144	0.0676245	0.9039152	
00:51.0		5.83668E+13	5398.44	0.0282594	0.2283316	0.0690384	0.8743458	2.1040074
05:53.8		5.84022E+13	5394.51	0.0282594	0.0270103	0.0689463	0.8743458	2.1012014
10:57.1		5.86008E+13	5396.65	0.0282594	0.0270877	0.0687399	0.8743458	2.0949115
16:00.5		5.86008E+13	5399.98	0.0282594	0.0272394	0.0687824	0.8743458	2.0962041
21:03.5		5.87322E+13	5397.6	0.0282594	0.0269131	0.0685982	0.8743458	2.0905929
26:07.8		5.87322E+13	5396.94	0.0282594	0.2272329	0.0685898	0.8743458	2.0903373
31:11.2		5.84595E+13	5395.06	0.0282594	0.0368119	0,0688857	0.8743458	2.0993542
36:14.2		5.91267E+13	5396.77	0.0282594	0.0273647	0.06813	0.8743458	0.8466638 2.0763241 2.076324
41:17.0		5.91267E+13	5395.88	0.0282594	0.0250754	0.0681188	0.8743458	
46:20.3	-7	5.92508E+13	5395.8	0.0282594	0.0257701	0.0679751	0.8743458	0.7973269 2.0716025 2.071603
51:23.3		5.92508E+13	5393.06	0.0282594	0.0249811	0.0679406	0.8743458	0.7729152 2.0705505 2.070551
56:25.9		5.92508E+13	5391.33	0.0282594	0.0252147	0.0679188	0.8743458	0.7801428 2.0698863 2.069886
01:28.7		5.92508E+13	5390.01	0.0294875	0.0252863	0.0679022	0.9123433	0.7823581 2.0693795 2.06938
06:31.8		5.92508E+13	5374.44	0.0294875	0.0227695	0.067706	0.9123433	0.7044883 2.0634017 2.063402
11:34,6		5.92508E+13	5371.81	0.0294875	0.0228204	0.0676729	0.9123433	
16:37.4		5.79249E+13	5372.6	0.0294875	0.024445	0.0692321	0.9123433	0.7563283 2.1099115 2.109912
21:40.3		5.95341E+13	5377.77	0.0294875	0.0231413	0.0674255	0.9123433	2.0548543
26:43.1		5.95341E+13	5384.99	0.0294875	0.0250495	0.0675161	0.9123433	2.0576131
31:45.9		5.95341E+13	5393.61	0.0294875	0.0254698	0.0676241	0.9123433	2.0609068
36:48.6		5.95341E+13	5395.02	0.0294875	0.0254096	0.0676418	0.9123433	2.0614455
41:51.5		5.95341E+13	5401,49	0.0294875	0.0250828	0.0677229	0.9123433	0.7760618 2.0639177 2.063918
46:55.3		6.01278E+13	5393.39	0.0294875	0.0235193	0.0669538	0.9123433	0,7276871 2.0404768 2.040477
51:58.7	574356 6.35303E+12	6.01278E+13	5401.9	0.0294875	0.0249891	0.0670594	0.9123433	0.7731628 2.0436963 2.043696
57:01.6		5.98782E+13	5404.01	0.0294875	0.0221317	0.0673653	0.9123433	
02:04.6		5.98782E+13	5410.44	0.0358722	0.021966	0.0674454	1.1098859	2.0554597
07:08.5		5.98782E+13	5413.48	0.0358722	0.0217579	0.0674833	1,1098859	2.0566147
12:11.9		5.99023E+13	5412.99	0.0358722	0.0219837	0.0674501	1.1098859	2.0556012
17:15.2		6.0023E+13	5413.64	0.0358722	0.0220791	0.0673224	1.1098859	2.0517109
22:18.3		6.0023E+13	5409.57	0.0358722	0.0229158	0.0672718	1.1098859	2.0501684
27:22.6		6.0023E+13	5403.2	0.0358722	0.0226755	0.0671926	1.1098859	2.0477543
32:25.6		5,95038E+13	5409.65	0.0358722	0.0247112	0.0678598	1,1098859	2.068088
37:29.5		5.95038E+13	5414.99	0.0358722	0.0361625	0.0679268	1.1098859	2.0701294
42:32.7		5.87448E+13	5422.88	0.0358722	0.0240264	0.0689047	1.1098859	2.0999322
47:36.4		5.87448E+13	5432.58	0.0358722	0.0226338	0.0690279	1.1098859	2.1036884
52:39.7		5.87448E+13	5428.01	0.0358722	0.0242397	0.0689699	1.1098859	2,1019188
57:42.7	574363 6.35303E+12	5.80502E+13	5427.15	0.0358722	0.032838	0.0697841	1.1098859	1.0160077 2.1267343 2.126734
02:45.9	574364 6.35303E+12	5.78645E+13	5427.23	0.0269724	0.048486	0.0700091	0.8345261	1.5001568 2.1335902 2.13359
07:49.0		5.78645E+13	5441.99	0.0269724	0.0436141	0.0701995	0.8345261	
12:51.9		5.73396E+13	5428.97	0.0269724	0.0245126	0.0706726	0.8345261	0.7584198 2.1538115 2.153812
17:54.9		5.84533E+13	5439,06	0.0269724	0.0248829	0.069455	0.8345261	0.7698769 2.1167024 2.116702
22:58.1	574367 6.35303E+12	5.84533E+13	5434,48	0.0269724	0,023353	0.0693965	0.8345261	0,7225418 2,1149201 2,11492

5/48/88 6/330021-12 5/33/37/1-13 499/36 0.0269724 0.02132-14 5/48/88 6/330021-12 5/33/37/1-13 494.25 0.0269724 0.0200213 5/44/30 6/330021-12 5/33/37/1-13 494.25 0.0269724 0.0200213 5/44/30 6/330021-12 5/33/31/6-13 496.25 0.0269724 0.0200203 5/44/30 6/330021-12 5/33/31/6-13 496.25 0.0269724 0.0200203 5/44/30 6/330021-12 5/33/31/6-13 496.25 0.020906 0.019633 5/44/30 6/330021-12 5/33/31/6-13 466.24 0.020906 0.019633 5/44/30 6/330021-12 5/33/31/6-13 466.04 0.020906 0.019633 5/44/30 6/330021-12 5/33/31/6-13 466.44 0.020906 0.0114455 5/44/31 6/330021-12 5/33/31/6-13 466.44 0.020906 0.0114455 5/44/31 6/330021-12 5/33/31/6-13 466.44 0.020906 0.0114455 5/44/31 6/34/31	28-013	574368 6 35303E±13	5 81278E±13	5 8575	ACT03C0 0	0.0316344	1100000	1717110	
97/4300 62/6300 62/6400 <t< td=""><td></td><td></td><td>5.81378E+13</td><td>5439.66</td><td>0.0269724</td><td>0.0213325</td><td>0.0698396</td><td>0.8345261</td><td>2 1284244</td></t<>			5.81378E+13	5439.66	0.0269724	0.0213325	0.0698396	0.8345261	2 1284244
9/4700 620006-12 67400			5.7527E+13	5442.57	0.0269724	0.0208171	0.0706189	0.8345261	2.1521741
57/470 53509E-13 565.35 0.002997A 0.00710/93 0.03710/94 0.53545E-13 0.651461 1.7100/94 57/470 53509E-13 57.391E-13 56.68.51 0.002997A 0.00710/94 0.0710/94 0.53545E-13 0.650461 1.7100/94 57/473 53509E-13 57.591E-13 57.591E-13 57.50 0.007990			5.73316E+13	5444,99	0.0269724	0.0201683	0.0708911	0.8345261	2.1604697
7.473.0 6.333081-1. 5.733041-1.3 5468.8 0.0295734 0.0172073 0.645572 0.669452 1.00070 7.473.0 6.333081-1. 5.733041-1.3 5468.8 0.0295734 0.079645 0.04562 0.079674 0.64552 0.069562 1.20208 7.473.1 6.333081-1. 5.733041-1.3 5464.3 0.020796 0.019624 0.077317 0.643561.2 0.661463 1.17421 7.473.6 6.333081-1. 5.681024-1.3 546.3 0.020796 0.02036 0.077317 0.643561.2 0.661464 1.17421 7.473.6 6.333081-1. 5.681024-1.3 546.3 0.020796 0.02036 0.07721 0.643561.2 0.661362 0.02036 7.473.6 6.333081-1. 5.681024-1.3 547.9 0.020796 0.020796 0.027243 0.643561.2 0.643561.2 0.643561.2 0.661464.3 0.027243 0.64361.2 0.020796 0.027243 0.027243 0.64346.2 0.027243 0.64346.2 0.027243 0.64346.2 0.027243 0.027243 0.027243 0.027243 0.027243 0.027243 0.027243 0.027244 0.027243 0.027243			5.73316E+13	5466.35	0.0269724	0.0200828	0.0711692	0.8345261	2.1689449
574378 6339081-1 5733918-13 5700044 0.000934 0.643452 0.000936 574378 6333081-1 5733918-13 5710.00 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000936 0.000000 0.000000 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000 0.00000000 0.000000000			5.73316E+13	5469.28	0.0269724	0.0197299	0.0712073	0.8345261	2.1701075
578.33.6.533081-1. 5.703781-1.3 546.3 0.0207906 0.019686 0.0704978 0.643651 0.601962 2.177282 578.34.6. 6.333081-1. 5.703781-1.3 546.3 0.0207906 0.019683 0.077319 0.643651 0.601962 2.177282 578.34.6. 6.333081-1. 5.60276-1.3 546.3 0.0207906 0.01963 0.077314 0.643612 0.66326 0.07731 578.37.6. 6.333081-1. 5.60276-1.3 546.3 0.0207906 0.01563 0.07732 0.643612 0.66326 0.07731 578.37.6. 6.333081-1. 5.6076-1.3 546.3 0.0207906 0.01724 0.07724 0.643612 0.66308 0.07724 578.37. 6.333081-1. 5.6076-1.3 546.3 0.0207906 0.01724 0.07724 0.643612 0.66308 0.07724 578.37. 6.2026-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1. 5.6076-1.			5.75391E+13	5468.81	0.0269724	0.0200014	0.0709444	0.8345261	2.1620944
974374 6.333016+1.1 5.07077+13 5.666.13 0.013495 0.013495 0.643201 0.643201 0.643201 97437 6.333016+1.2 5.6016-13 5.606.12 6.0027096 0.012709 0.012704 0.643201 0.643201 0.663204 97437 6.333016+1.2 5.66167-13 <t< td=""><td></td><td></td><td>5.75391E+13</td><td>5471.06</td><td>0.0207906</td><td>0.0196896</td><td>0.0709736</td><td>0.6432612</td><td>2.1629839</td></t<>			5.75391E+13	5471.06	0.0207906	0.0196896	0.0709736	0.6432612	2.1629839
57437 6 533036+1.1 5.007296 0.0236734 0.071242 0.645201 </td <td></td> <td></td> <td>5.70787E+13</td> <td>5464.23</td> <td>0.0207906</td> <td>0.0194455</td> <td>0.0714567</td> <td>0.6432612</td> <td>2.177708</td>			5.70787E+13	5464.23	0.0207906	0.0194455	0.0714567	0.6432612	2.177708
974376 633036+12 568165+13 564455 0.0217906 0.0157906 0.0157906 0.0157936 0.045701 0.645212 0.060342 1.188778 57437 633036+12 564561-13 564561-13 56457 0.007906 0.021114 0.077438 0.645212 0.061502 0.01702 57437 633036+12 563764-13 56457 0.007906 0.014615 0.07723 0.645202 0.050610 57437 633036+12 565764-13 5467 0.007906 0.01418 0.07723 0.645202 0.651012 2.00172 57437 632054-12 56574-14 5467 0.00790 0.01493 0.07722 0.07722 0.643502 0.651012 2.00172 57438 63306+12 56504-14 5467 0.00793 0.01893 0.07722 0.054742 0.643502 0.051012 57438 63306+12 56504-14 54734 0.01793 0.01893 0.07722 0.055742 0.557742 0.557742 0.557742 0.557742 0.557742 0.557742 0.557742 0.557742 0.557742			5.70787E+13	5456.01	0.0207906	0.0198243	0.0713492	0.6432612	2.1744321
74437 6 53008-1.1 568026-1.1 568026-1.1 568026-1.1 568026-1.1 568026-1.2			5.68162E+13	5459.27	0.0207906	0.0215706	0.0717217	0.6432612	2.185782
74377 6 53008-1.2 5602/06-13 566.4 0.0021144 0.072429 0.643651 0.664861 0.002104 74377 6 53008-1.2 5602/06-13 566.4 0.0020906 0.0214443 0.072229 0.643651 0.666492 0.002006 7437 6 53008-1.2 560074-13 567.7 0.002096 0.018825 0.072224 0.643651 0.661762 0.051002 7438 6 53008-1.2 560074-13 567.7 0.002096 0.018825 0.072234 0.643651 0.663502 0.05102 7438 6 53008-1.2 560611-13 56.45 0.020799 0.018821 0.07234 0.054754 0.65502 0.05530			5.68162E+13	5454.55	0.0207906	0.0196633	0.0716596	0.6432612	2.1838922
7.4378 6.3320E+1.2 5.6320E+1.2 5.6420E+1.2 5.6420E+1.2 <td></td> <td></td> <td>5.63276E+13</td> <td>5466.4</td> <td>0.0207906</td> <td>0.0221114</td> <td>0.0724384</td> <td>0.6432612</td> <td>2.2076251</td>			5.63276E+13	5466.4	0.0207906	0.0221114	0.0724384	0.6432612	2.2076251
7.4326 6.32026+12 5.650746+13 5.451.74 0.0020306 0.0020316 0.002032 0.002020 0.002032 0.002032 0.002020 0.002020 0.002020 0.002020 0.002020			5.63276E+13	5465.31	0.0207906	0.0214445	0.0724239	0.6432612	2.2071849
7/4378 6.33036±1.1 5.66074±13 5.6477 0.007235 0.07225 0.64336£1.2 0.6518B 2.160039 7/4378 6.33036±1.2 5.74626±1.4 5.74626±1.4 5.74626±1.4 5.7474 0.01935 0.072262 0.554742 0.56016 5/4384 6.33036±1.2 5.65611£1.3 5.4754 0.01739 0.018951 0.072262 0.54742 0.56646 2.201373 5/4384 6.33036±1.2 5.65611£1.3 5.4754 0.01739 0.018857 0.072262 0.554742 0.56646 2.201373 5/4384 6.33036±1.2 5.66611£1.3 5.475.0 0.01739 0.018857 0.072349 0.554742 0.566418 0.566118 5.475.0 0.01739 0.018649 0.077349 0.566118 0.57511 0.01739 0.018649 0.077492 0.554742 0.570338 0.57511 0.077479 0.077479 0.077479 0.077479 0.077479 0.077479 0.077479 0.077479 0.564754 0.570348 0.570348 0.575474 0.570348 0.570348 0.570348 0.5704749 0.5704749 <t< td=""><td></td><td></td><td>5.65074E+13</td><td>5471.97</td><td>0.0207906</td><td>0.0214515</td><td>0.0722814</td><td>0.6432612</td><td>2.2028417</td></t<>			5.65074E+13	5471.97	0.0207906	0.0214515	0.0722814	0.6432612	2.2028417
7/4374 6.33036±1.1 5.7462€±1.3 5.7462€±1.3 5.7462€±1.3 5.7462€±1.3 5.7462€±1.3 5.7462€±1.3 5.7562 0.01893 0.072222 0.073242 0.547542 0.558515 5.00315 7/4346 6.33308±1.2 5.66011€±1.3 5.754.2 0.01793 0.018951 0.072222 0.547542 0.586319 0.556316 0.57500 0.07339 0.01893 0.072222 0.547542 0.586319 0.57500 0.07339 0.01893 0.072222 0.547542 0.556319 0.57500 0.07339 0.01893 0.072222 0.547542 0.556319 0.57500 0.07339 0.01893 0.072222 0.07239 0.07239 0.07239 0.07239 0.072322 0.07239 0.072322 0.07239 0.07239 0.07239 0.07239 0.07239<			5.65074E+13	5467.7	0.0207906	0.0210118	0.072225	0.6432612	2.2011227
774384 633036+12 5.66011+3 57.58 0.01738 0.072264 0.5247542 0.586355 2.203345 774384 6333036+12 5.66011+13 547.34 0.01738 0.0188951 0.77229 0.5247542 0.564648 2.203345 7.74384 6333036+12 5.665111+13 547.54 0.01739 0.018857 0.0723049 0.574742 0.5757643 0.503385 2.203345 7.74384 633306+12 5.665111+13 547.85 0.01739 0.018637 0.0723049 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757643 0.5757644			5.75462E+13	5464.7	0.0207906	0.019883	0.0708824	0.6432612	2.1602037
77488 6 35303E+12 5.65611E+13 574.34 0.01793 0.018951 0.072329 0.5547542 0.5846484 2.010173 74488 6 35303E+12 5.65611E+13 547.54 0.01793 0.018951 0.072396 0.5547542 0.5846494 2.010173 74386 6 35303E+12 5.65611E+13 547.56 0.01793 0.0180784 0.0723961 0.5547542 0.5756404 2.500587 74386 6 33503E+12 5.65611E+13 548.58 0.01793 0.0180784 0.074752 0.575640 0.5536754 0.5546754 </td <td></td> <td></td> <td>5.65611E+13</td> <td>5475.86</td> <td>0.01793</td> <td>0.0189255</td> <td>0.0722642</td> <td>0.5547542</td> <td>2,2023153</td>			5.65611E+13	5475.86	0.01793	0.0189255	0.0722642	0.5547542	2,2023153
57488 (53503E+12 56601E+13 5475 0.018951 0.072359 0.5547542 0.5586349 2.0035787 57488 (53530E+12 5.6601E+13 5478.9 0.018673 0.018673 0.072364 0.5547542 0.5703881 2.003578 57438 (5350E+12 5.6601E+13 548.8 0.01793 0.018673 0.07360 0.5547542 0.559345 2.2063389 57438 (5350E+12 5.5605E+13 548.0 0.01793 0.018873 0.074352 0.5547542 0.559345 2.2061743 57438 (5350E+12 5.5605E+13 548.0 0.01793 0.018817 0.074752 0.5547542 0.553467 2.569174 57438 (5350E+12 5.4816E+13 5480 0.01793 0.018874 0.074752 0.554754 0.552347 0.552348 0.552454 0.552454 0.55246 0.574752 0.552468 0.577742 0.552468 0.572742 0.552468 0.577742 0.552468 0.577742 0.577742 0.577742 0.577742 0.577742 0.577742 0.577742 0.577742 0.577742	09:34.9		5.65611E+13	5473.44	0.01793	0.0188962	0.0722322	0.5547542	2.201342
7.438 (53203E+12 5.6601E+13 4.745 (5) 0.01793 0.0186937 0.0723949 0.5547542 0.5736604 2.0503378 5.7438 (53203E+12) 5.6601E+13 4.784 0.010793 0.018437 0.0723961 0.5547542 0.5736604 2.0033387 5.7438 (53203E+12) 5.52675E+13 5482.0 0.01793 0.0183573 0.074477 0.5447542 0.5536342 2.528043 5.7438 (53203E+12) 5.4816E+13 5482.7 0.01793 0.018357 0.074477 0.5447542 0.553343 2.228017 5/438 (53203E+12) 5.4816E+13 5482.7 0.01793 0.018359 0.074591 0.5547542 0.553342 2.578174 5/438 (53203E+12) 5.4816E+13 5494.4 0.01793 0.018696 0.075561 0.554742 0.552302 2.300218 5/438 (53203E+12) 5.4410E+13 5494.4 0.01793 0.018696 0.075512 0.55438 0.57522 0.520337 5/438 (53203E+12) 5.4410E+13 5494.4 0.01793 0.018696 0.018696 0.018			5.65611E+13	5475.01	0.01793	0.018951	0.0722529	0.5547542	2.2019735
74384 6353038+12 5.656316+13 5.483.8 0.01793 0.018038 0.073361 0.5547542 0.5503837 2.0568038 574386 6353038+12 5.506716+13 5483.8 0.018078 0.018078 0.074475 0.5547542 0.559389 2.55005843 574386 6353038+12 5.50076+13 548166+13 5483.6 0.01793 0.018815 0.074475 0.5547542 0.5580454 0.5580484 574387 6353038+12 5.48166+13 5483.6 0.01793 0.018815 0.074475 0.5547542 0.5580454 0.5580454 0.5580454 0.5580454 0.5580454 0.5580454 0.5580454 0.5580454 0.5580454 0.07493 0.018846 0.074475 0.554754 0.558177 0.554754 0.558177 0.554754 0.572044			5.65611E+13	5478.95	0.01793	0.0186057	0.0723049	0.5547542	2.2035581
7,4385 G.35303E+12 5,5275E+13 54830 0.01793 0.0186773 0.0740521 0.5547542 0.559457 2.5692643 2.5692645 2.5692645 0.5693457 0.5693457 0.569345 0.569345 0.5693457 0.569345 0.569346 0.57744 0.57744 0.57744 0.57744 0.57744 0.57744 0.57744 0.57744 0.57744 0.57744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744 0.577744			5.65611E+13	5485.86	0.01793	0.0184337	0.0723961	0.5547542	2,2063372
74386 633308F+12 5.5002F+13 5487.88 0.013873 0.018373 0.0144797 0.5547542 0.5581743 2.5002F13 2.728171 574386 633308F+12 5.4816F+13 5.492.41 0.01793 0.018494 0.077412 0.5547342 0.577242 0.5772492 0.5772493 0.577474 0.577474 0.577474 0.5772493 0.577474 0.577474 0.5772493 0.577474 0.577474 0.5772493 0.577474 0.577474 0.5772493 0.577474 0.577474 0.5772493 0.577474 0.077474 0.577474 0.5772493 0.577474 0.5772493 0.577474 0.5772493 0.577474 0.5772493 0.577474 0.5772493 0.577474 0.777474 0.777474 <t< td=""><td></td><td></td><td>5.52675E+13</td><td>5483.01</td><td>0.01793</td><td>0.0180784</td><td>0.0740521</td><td>0.5547542</td><td>2.2568058</td></t<>			5.52675E+13	5483.01	0.01793	0.0180784	0.0740521	0.5547542	2.2568058
5/4387 6.33303E+12 5,4431E+13 5,443E+1 6,04793 0,01283 0,01283 0,01283 0,012430			5.5002E+13	5487.88	0.01793	0.0183673	0.0744757	0.5547542	2.2697143
7.4337 6.35302E+1.2 5.4816E+13 5.494.4 0.01793 0.018396 0.074693 0.544742 0.5547542 0.5540242 0.5540242 0.524024 0.524024 0.573044 0.201734 0.0185406 0.074901 0.074901 0.074901 0.0544742 0.5547242 0.5732492 0.5732042 0.2732042 </td <td></td> <td></td> <td>5.4816E+13</td> <td>5489.7</td> <td>0.01793</td> <td>0.0188157</td> <td>0.0747532</td> <td>0.5547542</td> <td>2.278171</td>			5.4816E+13	5489.7	0.01793	0.0188157	0.0747532	0.5547542	2.278171
574387 6.35303E+12 5.4816E+13 5.494.4 0.01733 0.0185406 0.074901 0.5547542 0.573645 2.202012 574388 6.3530E+12 5.4816E+13 5.494.4 0.01793 0.0185406 0.0757612 0.075792			5.4816E+13	5485.01	0.01793	0.0183954	0.0746893	0.5547542	2.2762247
574388 6.35303E+L2 5,4816F+13 5,492,41 0.018793 0.018494 0.0747901 0.5547542 0.5572044 2.272044 574388 6.35303E+L2 5,44076E+13 5,492,5 0.0186796 0.0186046 0.0757612 0.5523488 0.572161 2.320978 574388 6.35303E+L2 5,41076E+13 5,492,5 0.0189796 0.0184926 0.075866 0.5253488 0.572161 2.321162 574389 6.35303E+L2 5,44076E+13 5,499,81 0.0189796 0.018926 0.075713 0.5253488 0.572161 2.311046 574399 6.35303E+L2 5,444713 5532,49 0.0189796 0.019699 0.075713 0.5253488 0.572161 2.31046 574393 6.35303E+L2 5,444713 5534 0.0189796 0.019699 0.075713 0.5253488 0.653207 0.273498 574394 6.35303E+L2 5,444713 5534 0.0169796 0.01969 0.075438 0.5253488 0.572146 0.572448 574394 6.35303E+L2			5.4816E+13	5494.4	0.01793	0.0185406	0.0748172	0.5547542	2.2801215
74388 6.35303E+12 5.41076E+13 5.491.83 0.0165996 0.0155045 0.075761 0.523488 0.5723492 2.3001726 74388 6.35303E+12 5.40076E+13 5.492.5 0.016996 0.0185043 0.075714 0.5253488 0.572161 2.310176 574386 6.35303E+12 5.40076E+13 5.492.81 0.016996 0.0184926 0.0757157 0.5253488 0.572161 2.310146 574386 6.35303E+12 5.4543E+13 5.498.81 0.016996 0.0189826 0.0757157 0.5253488 0.572161 2.310476 57439 6.35303E+12 5.4543E+13 5.532.49 0.016999 0.019997 0.075737 0.5253488 0.520420 0.573416 0.5253488 0.5330412 0.075734 0.5253488 0.5004208 0.075737 0.5253488 0.5004208 0.075737 0.5253488 0.5004208 0.075737 0.075734 0.5253488 0.6009208 0.075734 0.075734 0.5253488 0.6009208 0.075734 0.5253488 0.6009208 0.075734 0.075734			5,4816E+13	5492,41	0.01793	0.018494	0.0747901	0.5547542	2.2792957
574388 6.35330E+12 5.41076E+13 5.492.5 0.0169796 0.0184926 0.075866 0.5253488 0.5723488 0.5723488 0.5273462 0.5253488 0.5723462 0.5253488 0.572145 2.3100497 574388 6.33303E+12 5.44076E+13 5.499.81 0.0169796 0.018926 0.075866 0.5253488 0.572145 2.310449 574393 6.33303E+12 5.4543E+13 5532.69 0.0169796 0.019697 0.075713 0.5253488 0.572145 2.310449 574393 6.33303E+12 5.443E+13 5532.69 0.0169796 0.019697 0.075713 0.5253488 0.5092086 2.307402 574393 6.33303E+12 5.443E+13 5536.8 0.0169796 0.019697 0.075737 0.5253488 0.5092086 2.3074028 574394 6.33303E+12 5.3825E+13 5520.88 0.0169796 0.0196439 0.075739 0.5253488 0.6080917 2.253488 574395 6.33303E+12 5.3825E+13 5520.88 0.016979 0.0743948 <			5.41076E+13	5491.83	0.0169796	0.0185045	0.0757612	0.5253488	2.3088909
574388 6.35203E+1.2 5.4076E+13 5499.47 0.0169796 0.0184926 0.075866 0.5253488 0.572146 2.321402 574399 6.33203E+1.2 5.3673E+1.2 5.4076E+1.3 5.40981 0.0169796 0.018492 0.0075717 0.5253488 0.573456 2.307346 574399 6.33203E+1.2 5.4542E+13 5.3643E+13 5.3643E+13 5.3643E+13 5.3643E+13 5.36749 0.0169796 0.0169796 0.0169796 0.0169796 0.0169798 0.0169796 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169798 0.0169799 0.0169799 0.0169798 0.0169799			5.41076E+13	5492.5	0.0169796	0.0185003	0.0757704	0.5253488	2.3091726
574390 6.35303E+12 5.36713E+13 5.499.81 0.0164996 0.0144921 0.0755143 0.5253488 0.573146 2.33004408 574393 6.35303E+12 5.36713E+13 5532.69 0.0169796 0.0189826 0.0757137 0.5253488 0.5803207 2.3004208 574393 6.35303E+12 5.543E+13 5532.69 0.0169796 0.0194997 0.0757137 0.5253488 0.6092086 2.3004708 574393 6.35303E+12 5.544E+13 5556.48 0.0169796 0.0196471 0.0761508 0.5253488 0.6092086 2.3004708 574394 6.35303E+12 5.53825E+13 5528.48 0.0169796 0.0196439 0.074398 0.5253488 0.6108917 0.5553488 0.6108917 0.074348 0.5553488 0.6108917 0.074348 0.5553488 0.6108917 0.5553488 0.6108917 0.019448 0.074494 0.5553488 0.6108917 0.074494 0.5553488 0.6108917 0.074494 0.5553488 0.6108917 0.074494 0.055348 0.6108917 0.074494			5.41076E+13	5499.47	0.0169796	0.0184926	0.0758666	0.5253488	2.3121029
574393 6.35303E+12 5.4443E+13 553.69 0.0189826 0.0757157 0.5253488 0.5873216 2.3075042 574393 6.33303E+12 5.4543E+13 553.249 0.0194997 0.075713 0.5253488 0.6032086 2.3075028 574393 6.35303E+12 5.4543E+13 5524.48 0.0169796 0.0196471 0.075737 0.5253488 0.6092086 2.3077628 574393 6.35303E+12 5.38779E+13 5584.48 0.0169796 0.0196471 0.0767299 0.5253488 0.6092086 2.3077628 574394 6.35303E+12 5.3827E+13 5520.08 0.0169796 0.0196473 0.0767299 0.5253488 0.6080917 2.267346 574395 6.35303E+12 5.53825E+13 5520.08 0.0169796 0.0196429 0.074428 0.5253488 0.6080917 2.267346 574395 6.35303E+12 5.53825E+13 5520.08 0.0196929 0.0194428 0.5253488 0.6080917 2.267348 574395 6.35303E+12 5.53825E+13 5531.88			5.36713E+13	5499.81	0.0169796	0.0184921	0.0764881	0.5253488	2.3310446
574393 6.353303F+1.2 5.4549F+13 5532.49 0.0164997 0.075737 0.5525488 0.6032207 2.3074208 574393 6.353303F+1.2 5.4549F+13 5558.49 0.0169796 0.01969 0.075737 0.5523488 0.6032007 2.3092726 574393 6.353303F+1.2 5.4543F+13 5558.44 0.0169796 0.0199408 0.0767299 0.5253488 0.6093082 2.3092726 574395 6.35303F+1.2 5.53825F+13 5528.4 0.0169796 0.0199408 0.074398 0.5253488 0.609317 2.2673468 574395 6.35303F+1.2 5.53825F+13 5520.08 0.0169796 0.0193539 0.074434 0.5253488 0.609317 2.2673111 574395 6.35303F+1.2 5.53825F+13 5516.8 0.0169796 0.0193539 0.0744348 0.5988097 2.2675111 574395 6.35303F+1.2 5.518.69 0.0169796 0.0193539 0.0744348 0.598809 2.2656627 574396 6.35303F+1.2 5.53825F+13 5518.69 0.0176483 <td></td> <td></td> <td>5.4543E+13</td> <td>5532.69</td> <td>0.0169796</td> <td>0.0189826</td> <td>0.0757157</td> <td>0.5253488</td> <td>2.3075042</td>			5.4543E+13	5532.69	0.0169796	0.0189826	0.0757157	0.5253488	2.3075042
5/4393 6.35303F+12 5.4438F+13 5.356.93 0.0169796 0.019697 0.0757737 0.5533488 0.6092086 2.3092726 5/4393 6.35303F+12 5.4543F+13 5.564.48 0.0169796 0.0196471 0.0761508 0.5233488 0.6092086 2.3097262 5/4394 6.35303F+12 5.538275F+13 5.520.08 0.0169796 0.0196539 0.074398 0.5253488 0.6080917 2.273468 5/4395 6.35303F+12 5.53825F+13 5520.08 0.0169796 0.0197095 0.074338 0.55080917 2.2675411 5/4395 6.35303F+12 5.53825F+13 5516.08 0.0169796 0.0193487 0.074338 0.5460384 0.5986488 2.26575211 5/4395 6.35303F+12 5.53825F+13 5518.69 0.0176483 0.0193487 0.074534 0.5460384 0.5986488 2.26775111 5/4395 6.35303F+12 5.53825F+13 5528.2 0.0176483 0.0190264 0.074594 0.5460384 0.5986634 2.2721114 5/4396 6.35303F+12 </td <td></td> <td></td> <td>5,4543E+13</td> <td>5532.49</td> <td>0.0169796</td> <td>0.0194997</td> <td>0.075713</td> <td>0.5253488</td> <td>2.3074208</td>			5,4543E+13	5532.49	0.0169796	0.0194997	0.075713	0.5253488	2.3074208
5/4393 6.353038+12 5.4438+13 5.564.48 0.0166796 0.0166471 0.0765108 0.5533488 0.6078813 2.3207628 5/4394 6.353038+12 5.387798+13 5.538.44 0.0169796 0.019639 0.0767299 0.5533488 0.6169684 2.334199 5/4394 6.353038+12 5.382754+13 5520.08 0.0169796 0.0197095 0.074339 0.5533488 0.6169694 2.334199 5/4395 6.353038+12 5.538255+13 5520.08 0.0169796 0.019359 0.0743348 0.5508097 2.2656527 5/4395 6.353038+12 5.538255+13 5515.98 0.0169796 0.0193487 0.0743348 0.5986488 2.667752111 5/4395 6.353038+12 5.538255+13 5518.69 0.0176483 0.0192845 0.0745044 0.5460384 0.5966624 2.2721114 5/4395 6.353038+12 5.538256+13 5528.2 0.0176483 0.019026 0.075939 0.5460384 0.590344 2.270114 5/4396 6.353038+12 5.544.69			5.4543E+13	5536.93	0.0169796	0,01969	0.0757737	0.5253488	2.3092726
574394 6.35303F+12 5.38779F+13 5.38779F 0.0169796 0.0196739 0.074338 0.553488 0.6169917 2.267348 574395 6.35303F+12 5.53825F+13 5.518.69 0.0169796 0.0194349 0.0744348 0.5588097 2.2675111 574395 6.35303F+12 5.53825F+13 5518.69 0.016978 0.019487 0.0744308 0.5460384 0.596848 2.2675121 574395 6.35303F+12 5.53825F+13 5518.69 0.0176483 0.019026 0.0745075 0.5460384 0.5966624 2.277114 574395 6.35303F+12 5.53825F+13 5528.2 0.0176483 0.019026 0.075932 0.5460384 0.59034 2.270114 574396 6.35303F+12 5.544.69 0.0176483 0.019080 0.075932 0.5460384 0.59038 2.3140			5.4543E+13	5564.48	0.0169796	0.0196471	0.0761508	0.5253488	2.3207628
574395 6.353038+12 5.538258+13 5.520.08 0.0166796 0.0166539 0.074398 0.5533488 0.6080917 2.2673468 574395 6.353038+12 5.538258+13 5520.048 0.0169796 0.0197095 0.0744034 0.5533488 0.6080917 2.2673418 574395 6.353038+12 5.538258+13 5518.69 0.016493 0.07443428 0.55460384 0.5986488 2.267511 574395 6.353038+12 5.538258+13 5518.69 0.0176483 0.0193487 0.074554 0.5460384 0.5986684 2.267751 574395 6.353038+12 5.538258+13 5528.2 0.0176483 0.019026 0.0745075 0.5460384 0.596664 2.2772114 574396 6.353038+12 5.538258+13 554.69 0.0176483 0.019026 0.075932 0.5460384 0.59036 2.3140947 574396 6.353038+12 5.44.69 0.0176483 0.0190808 0.075932 0.5460384 0.59036 2.3140947 574396 6.353038+12 5.348389+13			5.38779E+13	5538.44	0.0169796	0.0199408	0.0767299	0.5253488	2.3384139
574395 6.353038+12 5.53825F+13 5.520.48 0.0169796 0.0197095 0.0744034 0.5533488 0.6098119 2.2675111 574395 6.353038+12 5.53825F+13 5516.89 0.0169396 0.0193487 0.0743428 0.533488 0.5988097 2.2675111 574395 6.353038+12 5.53825F+13 5516.89 0.0176483 0.0192845 0.0745044 0.5460384 0.5986648 2.26772114 574395 6.353038+12 5.53825F+13 5528.2 0.0176483 0.019026 0.0745075 0.5460384 0.596664 2.2721144 574395 6.353038+12 5.53825F+13 5528.2 0.0176483 0.0190542 0.075932 0.5460384 0.59036 2.3140947 574396 6.353038+12 5.44138+13 554.6 0.0176483 0.0190808 0.075932 0.5460384 0.59036 2.3155211 574396 6.353038+12 5.44138+13 552.98 0.0176483 0.0190808 0.076034 0.5460384 0.59036 2.3155211 574396			5.53825E+13	5520.08	0.0169796	0.0196539	0.074398	0.5253488	2.2673468
574395 6.35303F+12 5.53825F+13 5.15.98 0.0193539 0.0743428 0.5533488 0.5988097 2.2656627 574395 6.35303F+12 5.53825F+13 5.515.98 0.015483 0.0193487 0.0743793 0.5460384 0.5988097 2.2656627 574395 6.35303F+12 5.53825F+13 5.538.26 0.0176483 0.0190845 0.0745544 0.5460384 0.5986682 2.267759 574395 6.35303F+12 5.53825F+13 5.538.26 0.0176483 0.0190542 0.0745075 0.5460384 0.5986849 2.206672 574396 6.35303F+12 5.44713E+13 5.544.69 0.0176483 0.019080 0.075932 0.5460384 0.59036 2.3140947 574396 6.35303F+12 5.44713E+13 5552.98 0.0176483 0.019080 0.075932 0.5460384 0.593369 2.3140947 574396 6.35303F+12 5.446.99 0.0176483 0.019080 0.075934 0.5460384 0.593369 2.33140947 574397 6.35303F+12 5.3889E+13 5578.73 0.0176483 0.0198594 0.07754625 0.5460384			5.53825E+13	5520.48	0.0169796	0.0197095	0.0744034	0.5253488	2.2675111
574395 6.35303E+12 5.53825E+13 5.18.69 0.0176483 0.0193487 0.0743793 0.5460384 0.5986488 2.2667759 574395 6.35303E+12 5.53825E+13 5531.68 0.0176483 0.0192845 0.0745544 0.5460384 0.596624 2.270114 574395 6.35303E+12 5.53825E+13 5528.2 0.0176483 0.019042 0.075932 0.5460384 0.59036624 2.2706114 574396 6.35303E+12 5.44713E+13 5544.69 0.0176483 0.0190808 0.075932 0.5460384 0.5893569 2.310047 574396 6.35303E+12 5.44713E+13 5552.98 0.0176483 0.0190808 0.0756934 0.5460384 0.5936624 2.310047 574396 6.35303E+12 5.44713E+13 5552.98 0.0176483 0.011807 0.0756934 0.5460384 0.593369 2.3136943 574397 6.35303E+12 5.3888E+13 5578.73 0.0176483 0.0189594 0.077341 0.5460384 0.586038 2.3571303 574397 6.35303E+12 5.3888E+13 557.62 0.0176483 0.01995343			5.53825E+13	5515,98	0.0169796	0.0193539	0.0743428	0.5253488	2,2656627
574395 6.35303E+12 5.53825E+13 5531.68 0.0176483 0.0192845 0.0745544 0.5460384 0.5966624 2.2721114 574395 6.35303E+12 5.53825E+13 5528.2 0.0176483 0.0190262 0.0745075 0.5460384 0.5910344 2.2702114 574395 6.35303E+12 5.4713E+13 5541.2 0.0176483 0.0190808 0.075932 0.5460384 0.590362 2.3140947 574396 6.35303E+12 5.44713E+13 5544.69 0.0176483 0.0190808 0.075934 0.5460384 0.590362 2.3140947 574396 6.35303E+12 5.44713E+13 5552.98 0.0176483 0.019178 0.076534 0.5460384 0.5933673 2.3190142 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.019954 0.0774625 0.5460384 0.5895339 2.33190142 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0199541 0.0774625 0.5460384 0.5895339 2.3607386 574397			5.53825E+13	5518.69	0.0176483	0.0193487	0.0743793	0,5460384	2.2667759
574395 6.35303E+12 5.5825E+13 5528.2 0.0176483 0.0191026 0.0745075 0.5460384 0.5910344 2.270682 574396 6.35303E+12 5.44713E+13 5541.2 0.0176483 0.0190542 0.075932 0.5460384 0.5893369 2.3140947 574396 6.35303E+12 5.44713E+13 5544.69 0.0176483 0.0190808 0.0759798 0.5460384 0.5893369 2.3140947 574396 6.35303E+12 5.44713E+13 5554.69 0.0176483 0.019178 0.0767654 0.5460384 0.59036 2.3155521 574397 6.35303E+12 5.38389E+13 5536.99 0.0176483 0.0189594 0.0774625 0.5460384 0.586038 2.33194943 574397 6.35303E+12 5.38389E+13 5587.27 0.0176483 0.0199541 0.0774625 0.5460384 0.586038 2.351303 574397 6.35303E+12 5.38389E+13 5587.27 0.0176483 0.0199541 0.0774625 0.5460384 0.586038 2.35607386 574397			5.53825E+13	5531.68	0.0176483	0.0192845	0.0745544	0.5460384	2.2721114
574396 6.35303E+12 5.44713E+13 5.541.2 0.0176483 0.0190542 0.075932 0.5460384 0.5895369 2.3140947 574396 6.35303E+12 5.44713E+13 5.544.69 0.0176483 0.0190808 0.0759798 0.5460384 0.59036 2.315551 574396 6.35303E+12 5.44713E+13 5.536.99 0.0176483 0.019178 0.07667654 0.5460384 0.59036 2.315551 574397 6.35303E+12 5.38389E+13 5.536.99 0.0176483 0.0118807 0.0767654 0.5460384 0.5866038 2.3310142 574397 6.35303E+12 5.38389E+13 5.587.27 0.0176483 0.0190541 0.0774625 0.5460384 0.5866038 2.3571303 574397 6.35303E+12 5.38389E+13 5.577.62 0.0176483 0.0190541 0.0773287 0.5460384 0.5866038 2.3576613			5.53825E+13	5528,2	0.0176483	0.0191026	0.0745075	0.5460384	2.270682
574396 6.35303E+12 5.44713E+13 554.69 0.0176483 0.0190808 0.0759798 0.5460384 0.59036 2.3155521 574396 6.35303E+12 5.44713E+13 5552.98 0.0176483 0.019178 0.076934 0.5460384 0.5933673 2.3190142 574397 6.35303E+12 5.38389E+13 5552.98 0.0176483 0.018807 0.0767654 0.5460384 0.5866038 2.3334943 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0190541 0.0774625 0.5460384 0.586038 2.3571303 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0190541 0.07774625 0.5460384 0.5895339 2.3607386 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0173287 0.6403384 0.6403312 2.3566613			5.44713E+13	5541.2	0.0176483	0.0190542	0.075932	0.5460384	2.3140947
574396 6.35303E+12 5.44713E+13 5552.98 0.0176483 0.019178 0.0760934 0.5460384 0.533807 2.3190142 574397 6.35303E+12 5.38389E+13 5552.98 0.0176483 0.018807 0.0767654 0.5460384 0.5818886 2.3334943 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0189594 0.0773441 0.5460384 0.5866038 2.3571303 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0190541 0.0774625 0.5460384 0.5895339 2.3607386 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0173287 0.5460384 0.6493912 2.3566613			5,44713E+13	5544.69	0.0176483	0.0190808	0.0759798	0.5460384	2,3155521
574397 6.35303E+12 5.38389E+13 5536.99 0.0176483 0.018807 0.0767654 0.5460384 0.5818886 2.3334943 574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0189594 0.0173441 0.5460384 0.5866038 2.3571303 574397 6.35303E+12 5.38389E+13 5587.27 0.0176483 0.0190541 0.0774625 0.5460384 0.5895339 2.3607386 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0173287 0.5460384 0.6043912 2.3566613			5.44713E+13	5552.98	0.0176483	0.019178	0.0760934	0.5460384	2.3190142
574397 6.35303E+12 5.38389E+13 5578.73 0.0176483 0.0189594 0.0773441 0.5460384 0.5866038 2.3571303 574397 6.35303E+12 5.38389E+13 5587.27 0.0176483 0.0190541 0.0774625 0.5460384 0.5895339 2.3607386 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0773287 0.5460384 0.6043912 2.3566613			5.38389E+13	5536.99	0.0176483	0.018807	0.0767654	0.5460384	2.3394943
574397 6.35303E+12 5.38389E+13 5587.27 0.0176483 0.0190541 0.0774625 0.5460384 0.5895339 2.3607386 574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0773287 0.5460384 0.6043912 2.3566613			5.38389E+13	5578.73	0.0176483	0.0189594	0.0773441	0.5460384	2.3571303
574397 6.35303E+12 5.38389E+13 5577.62 0.0176483 0.0195343 0.0773287 0.5460384 0.6043912 2.3566613			5.38389E+13	5587.27	0.0176483	0.0190541	0.0774625	0.5460384	2.3607386
			5.38389E+13	5577.62	0.0176483	0.0195343	0.0773287	0.5460384	2.3566613

0.6061053 2.3570036 2.357004	2.42429	0.6209194 2.4267736 2.426774	0.6153904 2.4355582 2.435558	0.6181039 2.4425761 2.442576	0.6179894 2.4393714 2.439371	0.6228624 2.4640783 2.464078	0.6215877 2.4523071 2.452307	0.6448855 2.4680679 2.468068	0,6289762 2,4494541 2,449454	0.6902931 2.4228448 2.422845	0.6303375 2.3809636 2.380964	2.3660567	0.5936458 2.3692797 2.36928	0.6131658 2.3703744 2.370374	0.6222312 2.3741451 2.374145	0.629431 2.3814156 2.381416	0.7025608 2.3724172 2.372417	0.6460891 2.3587711 2.358771	0.6742414 2.3707646 2.370765	0.6768465 2.3695926 2.369593	0.6687867 2.3822095 2.38221	0.7169541 2.3907994 2.390799	0.733145 2.3923786 2.392379	0.7011654 2.4285046 2.428505	0.726957 2.4378128 2.437813	0.7331697 2.4747113 2,474711	0.691738 2.4816407 2.481641	0.7953065 2.475335 2.475335	0.7892639 2.5102894 2.510289	0.7977106 2.5138174 2.513817	0.7002712 2.4783037 2.478304	2.4665598	2.4621796	0.6800303 2.4502159 2.450216	2.4532005	2.445569		2.4446732 7	2.4531574	1.5273624 2.454819 2.454819	0.8702123 2.4864117 2.486412	0.8788167 2.483948 2.483948	0.886431 2.4817972 2.481797	0.7483396 2.5150298 2.51503	0.7015212 2.5146504 2.51465	0.7258153 2.5216605 2.521661	0.7311091 2.5358831 2.535883	0.74144 2.5319972 2.531997	0.7410378 2.5410953 2.541095
0.5460384	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5523656	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.5777426	0.7313164	0.7313164	0.7313164	0.7313164	0.7313164	0.7313164	0.7313164	0.7313164	0.7313164	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8365588	0.8589068	0.8589068	0.8589068	0.8589068	0.8589068
0.0773399	0.0795478	0.0796293	0.0799175	0.0801478	0.0800426	0.0808533	0.0804671	0.0809843	0.0803735	0.0795004	0.0781261	0.077637	0.0777427	0.0777787	0.0779024	0.0781409	0.0778457	0.0773979	0.0777915	0.077753	0.078167	0.0784489	0.0785007	0.0796861	0.0799915	0.0812022	0.0814296	0.0812227	0.0823697	0.0824854	0.0813201	0.0809348	0.080791	0.0803985	0.0804964	0.080246	0.0799874	0.0802166	0.080495	0.0805495	0.0815862	0.0815053	0.0814347	0.0825252	0.0825128	0.0827428	0.0832095	0.0830819	0.0833805
0,0195897	0.0199086	0.0200685	0.0198898	0.0199775	0.0199738	0.0201313	0.0200901	0,0208431	0.0203289	0,0223107	0.0203729	0.0202985	0.019187	0.0198179	0.0201109	0.0203436	0.0227072	0.020882	0.0217919	0.0218761	0.0216156	0.0231724	0.0236957	0.0226621	0.0234957	0.0236965	0.0223574	0.0257048	0.0255095	0.0257825	0.0226332	0.0365861	0.0220677	0.021979	0.0220696	0.0284763	0.0489843	0.2387125	0,2311826	0.0493653	0.0281258	0.0284039	0.02865	0.0241868	0.0226736	0.0234588	0.0236299	0.0239638	0.0239508
0.0176483	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.0178528	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.018673	0.0236366	0.0236366	0.0236366	0.0236366	0.0236366	0.0236366	0.0236366	0.0236366	0.0236366	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0270381	0.0277604	0.0277604	0.0277604	0.0277604	0.0277604
5578.43	5585.77	5570.36	5563.2	5579.23	5571.91	5570,27	5562.53	5598.28	5622.51	5610.46	5697.34	2660.07	5667.78	5661.93	5688.4	5705.82	5684,26	5675.94	5704.8	5701.98	5732.34	5753.01	5756.81	5695.4	5717.23	5714.11	5730.11	5715.55	5734.99	5743.05	5733.81	5702.24	5687,09	5689.31	5696.24	5678.52	5680.01	5679.28	5698.99	5702.85	5722.4	5716.73	5711.78	5700.85	5699.99	5715.88	5716.7	5707.94	5728.45
5.38389E+13	5.24135E+13	5.22154E+13	5.19602E+13	5.19602E+13	5.19602E+13	5.14241E+13	5.15991E+13	5.15991E+13	5.22163E+13	5.26766E+13	5.44332E+13	5.44179E+13	5.44179E+13	5.43366E+13	5.45039E+13	5.45039E+13	5.45039E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.33495E+13	5.33495E+13	5.25253E+13	5.25253E+13	5.25253E+13	5.19701E+13	5.19701E+13	5.263E+13	5.25895E+13	5.2543E+13	5.28202E+13	5.28202E+13	5.28202E+13	5.30049E+13	5.28466E+13	5.28466E+13	5.28466E+13	5.2354E+13	5.2354E+13	5.2354E+13	5,15634E+13	5.15634E+13	5.15634E+13	5.12815E+13	5.12815E+13	5.12815E+13
574397 6.35303E+12	574398 6.35303E+12								574404 6.35303E+12	574405 6.35303E+12	574406 6.35303E+12				574409 6.35303E+12	574409 6.35303E+12	574409 6.35303E+12			574410 6.35303E+12	574410 6.35303E+12	574410 6.35303E+12	574410 6.35303E+12	574412 6.35303E+12			574413 6.35303E+12	574413 6.35303E+12				211							574427 6.35303E+12			574428 6.35303E+12	574428 6.35303E+12	574429 6.35303E+12	574429 6.35303E+12	574429 6.35303E+12			574430 6.35303E+12
56:15.8	01:18.8	06:21.7	11:24.5	16:27.7	21:30.9	26:33.7	31:36.6	36:39.5	41:42.6	46:45.4	51:48.0	56:51.2	01:53.8	8.95:90	11:59.7	17:02.5	22:05.5	27:08.6	32:12.0	37:15.1	42:18.0	47:21.3	52:24.4	07:33.5	12:36.5	17:39.6	22:42.4	27:45.2	32:48.0	37:50.7	47:55.8	52:58.6	03:05.1	08:08.3	13:11.1	18:13.9	23:16.6	28:21.0	33:25.0	38:27.9	43:31.1	48:33.8	53:36.7	58:39.3	03:42.5	08:45.2	13:48.0	18:51.3	23:54.2

1 42.00	רדי זכטכזכ ז טכאגדז	61,7016617	50 7557	4072250	0000000			10000000000
		5.12815E+13	5/36.02	0.0277604	0.0240308	0.0834907	0.8589068	0.743513 2.5444533 2.544453
33:59.8		5.12815E+13	5/40.86	0.0277604	0.0248987	0.0835611	0.8589068	0.7703658 2.5466002 2.5466
39:02.8		5.12815E+13	5735.65	0.0277604	0.02456	0.0834853	0.8589068	0.7598864 2.5442891 2.544289
44:05.8	574430 6.35303E+12	5.12815E+13	5732.1	0.0277604	0.0249204	0.0834336	0.8589068	0.7710372 2.5427144 2.542714
49:08.6		4.97074E+13	5725.7	0.0277604	0.0480883	0.0859796	0.8589068	1.487852 2.6203068 2.620307
54:11.5	574432 6.35303E+12	4,99455E+13	5720.02	0.0277604	0.0288004	0.0854849	0.8589068	0.8910844 2.6052295 2.60523
59:14.4		4.99455E+13	5706.01	0.0277604	0.0478212	0.0852755	0.8589068	1.4795879 2.5988485 2.598849
04:17.3	574433 6.35303E+12	4.98413E+13	5720.99	0.027778	0.0269386	0.0856781	0.8594513	0.8334803 2.6111164 2.611116
09:50.0	574435 6.35303E+12	4.97656E+13	5725.87	0.027778	0.0240209	0.0858817	0.8594513	0.7432066 2.6173216 2.617322
14:23.2	574435 6.35303E+12	4.97656E+13	5733.32	0.027778	0.0249794	0.0859934	0.8594513	0.7728626 2.620727 2.620727
19:26.0		4.98823E+13	5729.99	0.027778	0.0275281	0.0857423	0.8594513	0.8517194 2.6130745 2.613075
29:31.7		4.96328E+13	5746.56	0,027778	0.0485069	0.0864226	0.8594513	1.5008035 2.6338056 2,633806
34:35,2		5.04581E+13	5735.82	0.027778	0.0272909	0.0848502	0.8594513	0.8443804 2.5858866 2.585887
39:38.2	574441 6.35303E+12	5.04581E+13	5745.02	0.027778	0.0271114	0.0849863	0.8594513	
44:40.9	574442 6.35303E+12	5.28842E+13	5751.06	0.027778	0.0487904	0.0811728	0.8594513	1.509575 2.4738132 2.473813
54:46.1	574442 6,35303E+12	5.28842E+13	5741.39	0.027778	0.0269661	0.0810363	0.8594513	0.8343311 2.4696537 2.469654
59:49.2	574443 6.35303E+12	5.28228E+13	5739.18	0.027778	0.0258253	0.0810993	0.8594513	0.7990348 2.4715738 2.471574
04:52.0	574443 6.35303E+12	5.28228E+13	5735,16	0.0303126	0.0260635	0.0810425	0.9378718	0.8064047 2.4698426 2.469843
09:54.9		5.28228E+13	5753.15	0.0303126	0.0249105	0.0812967	0.9378718	0.7707309 2.47759 2.47759
14:57.9	574443 6.35303E+12	5.28228E+13	5760.65	0.0303126	0.0251299	0.0814027	0.9378718	0.7775191 2.4808199 2.48082
		5.28228E+13	5758.01	0.0303126	0.0254432	0.0813654	0.9378718	0.7872126 2.4796829 2.479683
30:06.6		5.19166E+13	5760.01	0.0303126	0.0282726	0.0828144	0.9378718	0.8747542 2.5238421 2.523842
35:09.9		5.17083E+13	5750.9	0.0303126	0.0348358	0.0830164	0.9378718	1.0778197 2,5299985 2,529999
40:13.0		5.17083E+13	5762.47	0.0303126	0.0280725	0.0831834	0.9378718	0.8685632 2.5350885 2.535089
45:15.9		5.17083E+13	5753.72	0.0303126	0.026982	0.0830571	0.9378718	0.8348231 2.5312392 2.531239
50:18.7		5.19511E+13	5754.06	0.0303126	0.0268925	0.0826737	0.9378718	0.832054 2.5195561 2.519556
00:24.0		5.19511E+13	5721.44	0.0294253	0.0271858	0.082205	0.9104188	0.8411287 2.5052726 2.505273
05:27.0		5.19511E+13	5706.98	0.0294253	0.0253359	0.0819973	0,9104188	0.7838927 2.4989409 2.498941
10:30.3		5.17328E+13	5701.52	0.0294253	0.0259191	0.0822646	0.9104188	0.801937 2.5070865 2.507087
15:33.5	574450 6.35303E+12	5.16724E+13	5720.36	0.0294253	0.0262614	0.0826329	0.9104188	0.8125277 2.5183117 2.518312
20:36.3		5.16724E+13	5715.9	0.0294253	0.0259411	0.0825685	0.9104188	0.8026176 2.5163482 2.516348
25:39.3		5.16724E+13	5710.01	0.0294253	0.02602	0.0824834	0.9104188	0.8050588 2.5137552 2.513755
30:42.6		5.16724E+13	5720.01	0.0294253	0.0257416	0.0826278	0.9104188	0.7964451 2.5181576 2.518158
35:45.4	3	5.16724E+13	5725.31	0.0294253	0.0263149	0.0827044	0.9104188	0.814183 2.5204908 2.520491
40:48.2	574452 6.35303E+12	5.09821E+13	5714.39	0.0294253	0.0264506	0.0836643	0.9104188	0.8183816 2.5497457 2.549746
45:51.1	574454 6.35303E+12	5.11925E+13	5720.01	0.0294253	0.0252602	0.0834024	0.9104188	0.7815506 2.5417623 2.541762
50:54.1	574454 6.35303E+12	5.11925E+13	5704.48	0.0294253	0.0244985	0.0831759	0.9104188	0.7579836 2.5348614 2.534861
55:57.1	574454 6.35303E+12	5.11925E+13	5713.35	0.0294253	0.0241693	0.0833053	0.9104188	0.7477981 2.5388029 2.538803
6.65:00	574454 6.35303E+12	5.11925E+13	5714.69	0.0318592	0.0253433	0.0833248	0.9857236	0.7841217 2.5393983 2.539398
06:03.5	574454 6.35303E+12	5,11925E+13	5710.33	0.0318592	0.0243257	0.0832612	0.9857236	0.7526372 2.5374609 2.537461
11:07.4	574454 6.35303E+12	5.11925E+13	5705.52	0.0318592	0.0246413	0.0831911	0.9857236	0.7624018 2.5353235 2.535324

FILE PRODUCED NATIVELY

HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

BB10000918

2.2766768	2.2768935	2.2927926	2.2901439	2.2870844	2.2975179	2.3098563	2.3115503	2.3092677	2.3043114	2.3031184	2.314487	2.2761958	2.2634449	2.2624353	2.2507317	2.2518404	2.2537513	2.2542821	2.2066234	2.2072286	2.2138386	4.5779567	2.1956089	2.1774367	2.1895872	2.182771	2.1831776	2.182397	2.1711281	2.1711281	2.1711281	2.1733261	2.1719255	2.1702618	2.2341966	2.2356531	2.2356489	2.2352908	2.2359779	2.2753756	2.2726709	2.2736036	2.2756214	2,3334773	2.2137171	2.1795291
2.2766768	2.2768935	2.2927926	2.2901439	2.2870844	2,2975179	2.3098563	2.3115503	2.3092677	2.3043114	2.3031184	2.314487	2.2761958	2.2634449	2.2624353	2.2507317	2.2518404	2.2537513	2.2542821	2.2066234	2.2072286	2.2138386	2.2149045	2.1956089	2.1774367	2.1895872	2.182771	2.1831776	2.182397	2.1711281	2.1711281	2.1711281	2.1733261	2.1719255	2.1702618	2.2341966	2.2356531	2.2356489	2.2352908	2,2359779	2.2753756	2.2726709	2.2736036	2.2756214	2.3334773	2.2137171	2.1795291
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0.0694263	0.0694263	0.0694263	0.0694263	0.0694263	0.0694263	0.0694263	0.0694263	0.0694263	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.342119	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4809221	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.4884219	0.5416728	0.5416728
0.0747042	0.0747113	0.075233	0.0751461	0.0750457	0.075388	0.0757929	0.0758485	0.0757736	0.0756109	0.0755718	0.0759448	0.0746884	0.07427	0.0742369	0.0738528	0.0738892	0.0739519	0.0739693	0.0724055	0.0724254	0.0726423	0.0726772	0.0720441	0.0714478	0.0718465	0.0716229	0.0716362	0.0716106	0.0712408	0.0712408	0.0712408	0.0713129	0.071267	0.0712124	0.0733103	0.0733581	0.0733579	0.0733462	0.0733687	0.0746615	0.0745727	0.0746033	0.0746695	0.076568	0.0726383	0.0715165
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0.0022439	0.0022439	0.0022439	0.0022439	0.0022439	0.0022439	0.0022439	0.0022439	0.0022439	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0110575	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0155437	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0157861	0.0175072	0.0175072
5359.15	5359.66	5358.18	5351.99	5344.84	5349.94	5348.56	5357.05	5351.76	5350.18	5347.41	5348.27	5354.34	5358.41	5356.02	5359.34	5361.98	5366.53	5365.93	5359.19	5360.66	5358.27	5360.85	5361.66	5358.19	5364.52	5368.93	5369.93	5368.01	5363.48	5363.48	5363.48	5368.91	5365.45	5361.34	5360.85	5368.73	5368.72	5367.86	5369.51	5367.41	5361.03	5363.23	5367.99	5378.51	5368.99	5366,55
5.35475E+13	5.35475E+13	5.31615E+13	5.31615E+13	5.31615E+13	5.29706E+13	5.26741E+13	5.2719E+13	5.2719E+13	5.28168E+13	5.28168E+13	5.25658E+13	5.35108E+13	5.38531E+13	5.38531E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.41479E+13	5.52479E+13	5.52479E+13	5.50584E+13	5.50584E+13	5.55506E+13	5,5978E+13	5.57331E+13	5.59531E+13	5.59531E+13	5.59531E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.4583E+13	5.46276E+13	5.46276E+13	5.46276E+13	5,46276E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.24328E+13	5.51716E+13	5,60115E+13
		574234 6.35303E+12	574234 6.35303E+12	574234 6.35303E+12	574236 6.35303E+12	574237 6.35303E+12	574238 6.35303E+12	574238 6.35303E+12	574239 6.35303E+12	574239 6.35303E+12	574240 6.35303E+12	574243 6.35303E+12	574245 6.35303E+12	574245 6.35303E+12	574246 6.35303E+12	574246 6.35303E+12	574246 6.35303E+12	574248 6.35303E+12	574251 6.35303E+12	574251 6.35303E+12	574252 6.35303E+12	574252 6.35303E+12	574253 6.35303E+12	574255 6.35303E+12	574256 6.35303E+12	574257 6.35303E+12	574257 6.35303E+12	574257 6.35303E+12	574258 6.35303E+12	574258 6.35303E+12	574258 6.35303E+12							574260 6.35303E+12	574260 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	574261 6.35303E+12	574262 6.35303E+12	574266 6.35303E+12	574268 6,35303E+12
		24:45.0 574	29:47.7 574	34:50.4 574	39:53.2 574	44:56.5 574	49:59.5 574	55:02.4 574	00:05.4 574	05:08.0 574		15:13.5 574	20:16.2 574	25:18.9 574	30:21.7 574	35:24.4 574	40:27.4 574	45:30.2 574	50:33.1 574	55:35.9 574	00;38.6 574	05:43.2 574	10:46.3 574	15:49.2 574	20:52.2 574	25:55.1 574	30:57.9 574	36:00.9 574	41:04.6 574	46:07.7 574								26:34.2 574		36:43.9 574	41:47.1 574	46:49.9 574	51:52.9 574	56:56.1 574		07:01.5 574

2.1800073	2.1689142	2.1705513	2.1698701	2.1703932	2.2018709	2,2020766	2.2007128	2,2011279	2.2057972	2.2061384	2.2068659	2.2035818	2.2056328	2.2775843	2.2767487	2.2206488	2.2060669	2,1566766	2.1551586	2.1798939	2.1810009	2.2046367	2.2097504	2.2138454	2.1768876	2.1779279	2.1796979	2.2049105	2.2025372	2.2037157	2.2038176	2.2020845	2.2044049	2.2954736	2.2324921	2.2275453	2.1652907	2.1705862	2.1799641	2.1790528	2.1770277	2.1975834	2.1862275	2.1702049	2.1460054	2.122492
0.2321335 2.1800073					0.2289653 2.2018709	0.2897253 2.2020766	0.3295853 2.2007128	0.4813552 2.2011279	0.4174672 2.2057972	0.272832 2.2061384		0.4391562 2.2035818	0.4588 2.2056328	0.4608668 2.2775843	0.4572561 2.2767487	0.5851497 2.2206488	0.5625325 2.2060669	0.503301 2.1566766	0.4977998 2.1551586	0.3855836 2.1798939	0.5246527 2.1810009	0.5237647 2.2046367	0.5844009 2.2097504	0.5805056 2.2138454	0.6187598 2.1768876	0.6061858 2.1779279	0.5903476 2.1796979	0.6011828 2.2049105	0.5768299 2.2025372	0.6002855 2.2037157	0.5932095 2.2038176	0.6011549 2.2020845	0.605041 2.2044049	0.6099759 2.2954736	0.6095582 2.2324921	0.6092643 2.2275453	0.6098707 2.1652907	0.6108979 2.1705862	0.6431529 2.1799641	0.647206 2.1790528	0.6313988 2.1770277	0.648719 2.1975834	0.6521502 2.1862275	0.6522059 2.1702049	0.6437005 2.1460054	0.6490469 2.122492
0.23	0.21	0.21	0.21	0.21	0.22	0.28	0.32	0.48	0.41	0.2	0.24	0.43	0	0.46	0.45	0.58	0.56	0.5(0.49	0.38	0.52	0.52	0.58	0.58	0.61	0.60	0.590	0.60	0.57	0.600	0.59	09.0	0.60	0.60	09:0	0.60	09.0	0.610	0.64	9.0	0.63	9.0	0.65	0.65	0.64	0.64
0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.5416728	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6234812	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.6867876	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7240764	0.7635064	0.7635064
0.0715322	0.0711682	0.0712219	0.0711995	0.0712167	0.0722496	0.0722563	0.0722116	0.0722252	0.0723784	0.0723896	0.0724135	0.0723057	0.072373	0.0747339	0.0747065	0.0728657	0.0723873	0.0707666	0.0707168	0.0715284	0.0715648	0.0723403	0.0725081	0.0726425	0.0714298	0.0714639	0.071522	0.0723493	0.0722714	0.0723101	0.0723135	0.0722566	0.0723327	0.0753209	0.0732543	0.073092	0.0710493	0.071223	0.0715308	0.0715009	0.0714344	0.0721089	0.0717363	0.0712105	0.0704165	0.0696449
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0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0175072	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0201513	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0221974	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.0234026	0.024677	0.024677
5356.64	5353.05	5352.41	5350.73	5352.02	5353.7	5354.2	5354.14	5355.15	5366.51	5367.34	5369.11	5361,12	5366.11	5369.98	5368.01	5373.94	5377.71	5384.52	5380.73	5375.54	5378.27	5389.1	5401.6	5411.61	5399.02	5401.6	5405.99	5406.94	5401.12	5404.01	5404.26	5400.01	5405.7	5416.95	5406.6	5394,62	5372.85	5385.99	5382.26	5380.01	5375.01	5379.99	5380.19	5377.35	5388.44	5389.19
5,58958E+13	5.6144E+13	5.6095E+13	5.6095E+13	5.6095E+13	5.53104E+13	5.53104E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.36343E+13	5.36343E+13	5.50501E+13	5.54528E+13	5.67946E+13	5.67946E+13	5.6096E+13	5.6096E+13	5.56063E+13	5.56063E+13	5.56063E+13	5.64188E+13	5.64188E+13	5.64188E+13	5.57835E+13	5.57835E+13	5.57835E+13	5.57835E+13	5.57835E+13	5.57835E+13	5.36818E+13	5.50908E+13	5,50908E+13	5.6446E+13	5.6446E+13	5.61643E+13	5,61643E+13	5.61643E+13	5.56905E+13	5.59818E+13	5.63654E+13	5.71185E+13	5.77593E+13
574269 6.35303E+12	574270 6.35303E+12	574271 6.35303E+12	574271 6.35303E+12	574271 6.35303E+12	574273 6.35303E+12	574273 6.35303E+12		574274 6.35303E+12	574274 6.35303E+12	574274 6.35303E+12	574274 6.35303E+12	574274 6.35303E+12	574274 6.35303E+12	574275 6.35303E+12	574275 6.35303E+12	574277 6.35303E+12	574279 6.35303E+12	574281 6.35303E+12	574281 6.35303E+12	574282 6.35303E+12	574282 6.35303E+12	574283 6.35303E+12	574283 6.35303E+12	574283 6.35303E+12		574284 6.35303E+12		574285 6.35303E+12	574285 6.35303E+12	574286 6.35303E+12	574287 6.35303E+12		574288 6.35303E+12	574288 6.35303E+12	574289 6.35303E+12	574289 6.35303E+12	574289 6.35303E+12	574290 6.35303E+12	574292 6.35303E+12		574295 6.35303E+12	574298 6.35303E+12				
12:04.4 5	17:07.9 5	22:10.7 5	27:13.7 5			42:23.0 5				02:34.7 5		12:40.5 5	17:43.1 5	22:45.8 5	27:48.5 5			42:56.7 5	47:59.4 5	53:02.7 5	58:06.1 5	03:10.1 5	08:13.3 5	13:16.5 5					38:30.5 5	43:34.1 5								29:02.3 5	34:05.2 5	39:08.3 5	44:11.8 5	49:15.0 5				14:29.9 5

77	55	34	24	38	32	32	39	35	31	37	51	99	35	27	21	38	59	35	52	11	39	23	35	73	38	39	27	39	38	39	44	37	59	75	52	52)3	23	21	28	12	82	33	74	39	13
2.12217	2.1232955	2.1266234	2.1347724	2.5425038	6.6369982	4.7126632	5.3536039	5.2849635	6.5907831	2.09837	2.0436461	2.0433356	2.0362495	2.044127	2.0495721	2.0486608	2.0492469	2.0523565	6.4136052	2.0292641	6.8153889	1.9754023	1.97785	1.9904973	1.9890538	1.9921839	1.9917457	1.9931339	1.991208	1.9887739	1.9867744	1.9876987	1.9877429	1.9857875	1.9862552	2.0868162	2.0855903	2,0858223	2.0977221	2.1007958	2,1137127	2.0566378	2.0551733	2.0615104	2.0622889	2.0605413
2.122177	2.1232955	2.1266234	2.1347724	2.1287995	2.124483	2.1249792	2,1376815	2.0977787	2.0983778	2.09837	2.0436461	2.0433356	2.0362495	2.044127	2.0495721	2.0486608	2.0492469	2.0523565	2.0508644	2.0292641	2.0167195	1.9754023	1.97785	1.9904973	1.9890538	1.9921839	1.9917457	1.9931339	1.991208	1.9887739	1.9867744	1.9876987	1.9877429	1.9857875	1.9862552	2.0868162	2.0855903	2.0858223	2.0977221	2.1007958	2.1137127	2.0566378	2.0551733	2.0615104	2.0622889	2.0605413
0.7213166	0.6693374	0.7733855	0.7960862	2.5425038	6.6369982	4.7126632	5.3536039	5.2849635	6.5907831	1.1364262	0.7824045	0.7775222	0.9054282	0.9056881	0.9073124	0.7804832	0,8635354	0.7884131	6.4136052	0.8249192	6.8153889	1.1256127	0.9240788	0.8528611	0.8494639	0.8359245	0.8413329	0.8421156	0.8086293	0.809839	0.8136044	0.8071349	0.8089572	0.812404	0.8091243	0.8078156	0.7868939	0.8272799	0.8048793	0.8317971	0.9152176	1.082999	0.8664747	0.8314352	0.7781967	0.8220603
0.7635064	0.7635064	0.7635064	0.7635064	0.7635064	0.7635064	0.7635064	0.7635064	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8426014	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8987173	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.8830709	0.9151433	0.9151433	0.9151433	0.9151433	0.9151433
0.0696346	0.0696713	0.0697805	0.0700479	0.0698519	0.0697103	0.0697265	0.0701433	0.068834	0.0688537	0.0688534	0.0670578	0.0670476	0.0668151	0.0670736	0.0672522	0.0672223	0.0672416	0.0673436	0.0672946	0.0665859	0.0661742	0.0648185	0.0648988	0.0653138	0.0652665	0.0653692	0.0653548	0.0654003	0.0653371	0.0652573	0.0651917	0.065222	0.0652234	0.0651593	0.0651746	0.0684743	0.0684341	0.0684417	0.0688322	0.068933	0.0693569	0.0674841	0.067436	0.067644	0.0676695	0.0676122
0.0233134	0.0216334	0.0249963	0.02573	0.0821753	0.2145119	0.1523162	0.1730318	0.1708133	0.2130182	0.03673	0.0252878	0.02513	0.029264	0.0292724	0.0293249	0.0252257	0.02791	0.025482	0.2072917	0.0266619	0.2202776	0.0363805	0.0298668	0.027565	0.0274552	0.0270176	0.0271924	0.0272177	0.0261354	0.0261745	0.0262962	0.0260871	0.026146	0.0262574	0.0261514	0,0261091	0.0254329	0.0267382	0.0260142	0.0268842	0.0295804	0.0350032	0.028005	0.0268725	0.0251518	0.0265695
0.024677	0.024677	0.024677	0.024677	0.024677	0.024677	0.024677	0.024677	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0272334	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0290471	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.0285414	0.029578	0.029578	0.029578	0.029578	0.029578
5388.39	5391.23	5399.68	5391.27	5391.51	5394.15	5395.41	5395.02	5392.07	5393.61	5393.59	5397.01	5396.19	5397.48	5402.84	5397.41	5395.01	5392.41	5391.82	5387.9	5388.49	5387.98	5399.05	5405.74	5405.41	5401.49	5409.99	5408.8	5412.57	5407.34	5400.73	5395.3	5397.81	5397.93	5392.62	5393.89	5396.27	5393.1	5393.7	5398.48	5406.39	5403.98	5406.62	5402.77	5401.77	5403.81	5405.43
5.77593E+13	5.77593E+13	5.77593E+13	5.74492E+13	5.7613E+13	5.77583E+13	5.77583E+13	5.7411E+13	5.8471E+13	5.8471E+13	5.8471E+13	6.00748E+13	6.00748E+13	6.02983E+13	6.01255E+13	5.99055E+13	5.99055E+13	5.98595E+13	5.97623E+13	5.97623E+13	6.04051E+13	6.0775E+13	6.21737E+13	6.21737E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	5.8824E+13	5.8824E+13	5.8824E+13	5.85421E+13	5.85421E+13	5.81584E+13	5.98016E+13	5.98016E+13	5.96067E+13	5.96067E+13	5.96752E+13
38 6.35303E+12	38 6.35303E+12	38 6.35303E+12	00 6.35303E+12	01 6.35303E+12)2 6.35303E+12)5 6.35303E+12	05 6.35303E+12	35 6.35303E+12	9 6.35303E+12	9 6.35303E+12	.0 6,35303E+12	.1 6.35303E+12	.2 6.35303E+12	.2 6.35303E+12		.5 6.35303E+12	.5 6.35303E+12	.7 6.35303E+12	.9 6.35303E+12	10 6.35303E+12	10 6.35303E+12	11 6.35303E+12	1 6.35303E+12	11 6.35303E+12	1 6.35303E+12	11 6.35303E+12	11 6.35303E+12	11 6.35303E+12				1 6.35303E+12	1 6.35303E+12	12 6.35303E+12		2 6.35303E+12	3 6.35303E+12	3 6.35303E+12	4 6.35303E+12	.6 6.35303E+12	.6 6.35303E+12	.7 6.35303E+12	7 6.35303E+12	.8 6.35303E+12
9 574298	5 574298	5 574298	6 574300	1 574301				8 574305	7 574305	7 574305	3 574309	4 574309	2 574310	9 574311	3 574312	2 574312	3 574314	1 574315	4 574315	3 574317	2 574319	5 574320		3 574321	1 574321	0 574321	7 574321	6 574321	3 574321	2 574321				3 574321	0 574321	8 574322		8 574322	7 574323	6 574323	6 574324	4 574326	4 574326	3 574327	0 574327	9 574328
19:32.9	24:36.5	29:39.5	34:42.6	39:48.1	44:52.1	49:55.9	54:59.6	00:04.8	05:08.7	10:11.7	20:17.3	25:20.4	30:23.2	35:25.9	40:29.3	45:32.2	50:35.3	55:38.1	00:42.4	05:45.3	10:49.2	20:54.5	25:57.3	31:00.3	36:03.1	41:06.0	46:08.7	51:11.6	56:14.3	01:17.2	06:20.9	11:24.4	16:27.4	21:30.3	26:33.0	31:35.8	36:38.8	41:41.8	46:44.7	51:47.6	56:50.6	01:53.4	06:56.4	11:59.3	17:02.0	22:04.9

2.0606137	2.0704516	2.0628912	2.0588333	2.0730351	2.0814126	2.0338321	2.0460298	2.0443159	2.0328944	2.0328982	2.0493813	2.0611697	2.0611697	2.0609177	6.847613	2.0931918	2.0900429	6.8283033	2.0993542	2.0756546	2.071303	2.070969	2.0695753	2.0699132	2.0666958	2.0624611	2.0643232	2.0529247	2.0553472	2.0581021	2.0608686	2.0625766	2.0756429	2.0412523	2.0430494	2.054282	2.0562993	2.0727494	2.0546898	2.0481598	2.0670711	2.0682256	2.0738645	2.1038472	2.103278	2,1264208	
0.8160889 2.0606137	0.8208846 2.0704516					0.8178308 2.0338321		0.7985057 2.0443159				70.5	0.8178865 2.0611697	0.8032859 2.0609177	6.847613 2.1014468	0.8100556 2.0931918	0.8090006 2.0900429	6.8283033 2.0998095	1.105808 2.0993542	0.8206247 2.0756546	0.7522442 2.071303	0.7756565 2.070969	0.7515233 2.0695753	0.7576432 2.0699132	0.7594161 2.0666958	0.683313 2.0624611	0.6853674 2.0643232	0.7333368 2.0529247	0.6933221 2.0553472	0.750592 2.0581021	0.7627236 2.0608686	0.7603196 2.0625766	0.7507282 2.0756429	0.7033683 2.0412523	0.7474331 2.0430494	0.6617107 2.054282	0.6566118 2.0562993	0.6502536 2.0727494	0.6577473 2.0546898	0.6857913 2.0481598	0.6776541 2.0670711	0.7383955 2.0682256	1.0798493 2.0738645	0.7162888 2.1038472	0.6737959 2.103278	0.7216384 2.1264208	
0.9151433	0.9151433	0.9151433	0.9151433	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8804905	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8543122	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	0.8911463	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	1.0827608	
0.0676145	0.0679373	0.0676893	0.0675561	0.0680221	0.068297	0.0667358	0.067136	0.0670798	0.066705	0.0667051	0.067246	0.0676328	0.0676328	0,0676245	0.0689544	0.0686835	0.0685802	0.0689007	0.0688857	0,0681081	0.0679653	0.0679543	0.0679086	0.0679197	0.0678141	0.0676752	0.0677362	0.0673622	0.0674417	0.0675321	0.0676229	0.0676789	0.0681077	0.0669792	0.0670382	0.0674068	0.067473	0.0680127	0.0674202	0.0672059	0.0678264	0.0678643	0.0680493	0.0690331	0.0690145	0.0697738	
0.0263765	0.0265315	0.0264993	0.0263688	0.0275794	0.0264065	0.0264328	0.0262088	0.0258082	0.0262698	0.0252935	0.02589	0.0257766	0.0264346	0.0259627	0.2213191	0.0261815	0.0261474	0.220695	0.0357404	0.0265231	0.024313	0.0250697	0.0242897	0.0244875	0.0245448	0.0220851	0.0221515	0.0237019	0.0224086	0.0242596	0.0246517	0.024574	0.024264	0.0227333	0.0241575	0.0213869	0.0212221	0.0210166	0.0212588	0.0221652	0.0219022	0.0238654	0.0349014	0.0231509	0.0217775	0.0233238	
0.029578	0.029578	0.029578	0.029578	0.028458	0.028458	0,028458	0.028458	0.028458	0.028458	0.028458	0.028458	0.028458	0.028458	0.028458	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0276119	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0288024	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	0.0349955	
5405.62	5414.16	5414.16	5406.27	5400.02	5400.05	5403.81	5403.9	5404.53	5405.01	5405.02	5399.97	5399.01	5399.01	5398.35	5395.14	5392.22	5396.18	5396.23	5395.06	5395.03	5395.02	5394.15	5390.52	5391.4	5383.02	5371.99	5376.84	5372.72	5379.06	5386.27	5393.51	5397.98	5401.73	5395.44	5400.19	5407.34	5412.65	5412.99	5410.59	5404.27	5406.99	5410.01	5424.76	5432.99	5431.52	5426.35	
5.96752E+13	5,94855E+13	5.97035E+13	5.9734E+13	5.92562E+13	5.9018E+13	6.04407E+13	6.00814E+13	6.01388E+13	6.0482E+13	6.0482E+13	5.99395E+13	5.95861E+13	5.95861E+13	5.95861E+13	5.84022E+13	5.86008E+13	5.87322E+13	5,84595E+13	5.84595E+13	5.91267E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.95341E+13	5.95341E+13	5.95341E+13	5.95341E+13	5.95341E+13	5.92005E+13	6.01278E+13	6.01278E+13	5.98782E+13	5.98782E+13	5.94067E+13	5.99023E+13	6.0023E+13	5.95038E+13	5.95038E+13	5.95038E+13	5.87448E+13	5.87448E+13	5.80502E+13	
574328 6.35303E+12		574330 6.35303E+12	574333 6.35303E+12	574334 6.35303E+12		574337 6.35303E+12		574340 6.35303E+12	574342 6.35303E+12	574342 6.35303E+12	574343 6.35303E+12		574344 6.35303E+12							574350 6.35303E+12		574351 6.35303E+12			574351 6.35303E+12			574353 6.35303E+12											574359 6.35303E+12	574360 6.35303E+12		574361 6.35303E+12			574362 6.35303E+12	574363 6.35303E+12	
27:08,1	32:11.0	37:14.1	52:22.4	02:28.0	07:31.0	12:34.3	17:37.3	22:40.4	27:43.7	32:46.8	37:49.9	42:52.7	47:55.6	58:00.7	03:05.1	08:08.7	23:17.2	28:21.2	33:24.2	38:27.1	43:30.0	48:32.9	53:35.7	58:38.6							33:59.0	39:01.9			54:11.6	59:14.8	04:17.8	09:21.0	14:24.8	24:31.9	29:35.1	34:38.4	39:41.8	44:45.3		54:51.6	

2.1262994	2.1395736	2.1183292	2.125032	2,1314881	2.151664	2.153131	2.1608665	2.169064	2.1831762	2.1626439	2.1629641	2.1764008	2.1855137	2.2050485	2.2077785	2.2033529	2.2027129	2,2019037	2.1750424	2.2002079	2.2037511	2.2016035	2.2059028	2.2068882	2.2593577	2.2705332	2.2808975	2.2791214	2.3090086	2.3093366	2.3103456	2.3372263	2.2966372	2.3007978	2,3112745	2.3120627	2.3392162	2.3219053	2,2693225	2,265749	2.2670593	2.2707806	2.2727645	2,3098433	2.3156899	27202166
2.1262994	2.1395/36	2.1183292	2.125032	2.1314881	2.151664	2.153131	2.1608665	2.169064	2.1831762	2.1626439	2.1629641	2.1764008	2.1855137	2.2050485	2.2077785	2.2033529	2.2027129	2.2019037	2.1750424	2,2002079	2.2037511	2.2016035	2.2059028	2.2068882	2.2593577	2.2705332	2.2808975	2.2791214	2.3090086	2.3093366	2.3103456	2.3372263	2.2966372	2.3007978	2.3112745	2.3120627	2.3392162	2.3219053	2.2693225	2.265749	2.2670593	2.2707806	2.2727645	2.3098433	2.3156899	25202166
	1.29468/4	0.7390823	0.6942967	0.6436263	0.633908	0.5983363	0.5983363	0.584701	0.584701	0.5813348	0.5735874	0.5738504	0.5779468	0.6501793	0.629827	0.6291216	0.6160618	0.5841689	0.5570933	0.5561496	0.5576316	0.5481423	0.5436498	0.533025	0.541877	0.5535135	0.5464901	0.5458156	0.545958	0.5454196	0.545927	0.5464592	0.5614496	0.5785006	0.5771145	0.5827023	0.5812141	0.5910375	0.5831726	0.5836738	0.5729593	0.5715608	0.5694755	0.5643858	0.5628234	
1.0827608	0.8126/	0.81267	0.81267	0.81267	0.81267	0.81267	0.81267	0.81267	0.81267	0.6245363	0.6245363	0.6245363	0.6245363	0.6245363	0.6245363	0.6245363	0.6245363	0.6245363	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5487209	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5206985	0.5416604	0.5416604	0.5416604	0.5416604	
0.0697699	0.0702054	0.0695083	0.0697283	0.0699401	0.0706021	0.0706503	0.0709041	0.0711731	0.0716362	0.0709624	0.0709729	0.0714138	0.0717129	0.0723538	0.0724434	0.0722982	0.0722772	0.0722507	0.0713693	0.072195	0.0723113	0.0722408	0.0723819	0.0724142	0.0741359	0.0745026	0.0748427	0.0747844	0.0757651	0.0757758	0.0758089	0.076691	0.0753591	0.0754956	0.0758394	0.0758653	0.0767563	0.0761882	0.0744629	0.0743456	0.0743886	0.0745107	0.0745758	0.0757925	0.0759843	4 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
0.0316189	0.0418451	0.0238876	0.0224401	0.0208024	0.0204883	0.0193386	0.0193386	0.0188979	0.0188979	0.0187891	0.0185387	0.0185472	0.0186796	0.0210142	0.0203564	0.0203336	0.0199115	0.0188807	0.0180056	0.0179751	0.018023	0.0177163	0.0175711	0.0172277	0.0175138	0.0178899	0.0176629	0.0176411	0.0176457	0.0176283	0.0176447	0.0176619	0.0181464	0.0186975	0.0186527	0.0188333	0.0187852	0.0191027	0.0188485	0.0188647	0.0185184	0.0184732	0.0184058	0.0182413	0.0181908	1 1 1 1
0.0349955	0.026266	0.026266	0.026266	0.026266	0.026266	0.026266	0.026266	0.026266	0.026266	0.0201854	0.0201854	0.0201854	0.0201854	0.0201854	0.0201854	0.0201854	0.0201854	0.0201854	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.017735	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0168293	0.0175068	0.0175068	0.0175068	0.0175068	1
5426.04	5442.45	5443.24	5430.99	5447.49	5441.28	5444.99	5445.99	5466.65	5473.18	5470.2	5471.01	5460.95	5458.6	5460.02	5466.78	5473.24	5471.65	5469.64	5478.36	5470.62	5479.43	5474.09	5484.78	5487.23	5489.21	5489.86	5496.27	5491.99	5492.11	5492.89	5495.29	5494.94	5498.94	5516.61	5541.73	5543.62	5540.34	5499.34	5524.89	5516.19	5519.38	5528.44	5533.27	5531.02	5545.02	
5.80502E+13	5.78645E+13	5.84533E+13	5.81378E+13	5.81378E+13	5.7527E+13	5.7527E+13	5.73316E+13	5.73316E+13	5.7029E+13	5.75391E+13	5.75391E+13	5.70787E+13	5.68162E+13	5.63276E+13	5.63276E+13	5.65074E+13	5.65074E+13	5.65074E+13	5.72964E+13	5.65611E+13	5.65611E+13	5.65611E+13	S.65611E+13	5.65611E+13	5.52675E+13	5.5002E+13	5.4816E+13	5.4816E+13	5.41076E+13	5.41076E+13	5.41076E+13	5.34819E+13	5.44667E+13	5.4543E+13	5.4543E+13	5.4543E+13	5.38779E+13	5.38779E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.44713E+13	5.44713E+13	1
6.35303E+12	6.353U3E+12	6.353U3E+12	6.35303E+12																																											
574363	5/4364	5/436/	574368	574368	574369	574369	574370	574370	574372	574373	574373	574374	574376	574377	574377	574378	574378	574378	574383	574384	574384	574384	574384	574384	574385	574386	574387	574387	574388	574388	574388	574389	574392	574393	574393	574393	574394	574394	574395	574395	574395	574395	574395	574396	574396	
59:54.6	200.01	7.90:07	25:10.0	30:13.1	35:16.2	40:20.4	45:23.4	50:26.5	55:29.5	00:32.4	05:35.4	15:40.8	25:46.4	35:51.9	40:54.8	45:57.7	51:01.0	56:04.1	01:36.7	8.68:90	11:42.7	16:45.6	21:48.3	26:51.4	31:54.2	36:57.2	47:03.0	52:06.0	57:08.7	02:11.8	07:15.3	12:18.3	17:21.0	22:23.8	27:27.0	32:29.9	37:33.5	42:36.4	47:39.2	52:42.0	57:44.9	02:47.9	07:50.8	12:53.8	17:56.8	

2.3466856	2.3449279	2.3503573	2.3562557	2.3625893	2.3560064	2.4217554	2.431849	2.4234321	2.441092	2.4425586	2.4644852	2,4640783	2.458585	2.4717605	2.45219	2.4311707	2.3768473	2.3685147	2.3703707	2.3744772	2.3831101	2.3711776	2.3712235	2.3715874	2.3783446	2.3739395	2.3964304	2.3906456	2.4652002	2.4637378	2.4337024	2.4300311	2,4376465	2.4803111	2.4804844	2.4841786	2.5122723	2.5173089	2.5090566	2.4751591	2.4652918	2.4555216	2.4331701	2.4548241	2,4458059	2.471061
2.3466856	2.3449279	2.3503573	2.3562557	2.3625893	2.3560064	2.4217554	2.431849	2.4234321	2.441092	2.4425586	2.4644852	2.4640783	2.458585	2.4717605	2.45219	2.4311707	2.3768473	2.3685147	2.3703707	2.3744772	2.3831101	2.3711776	2.3712235	2.3715874	2.3783446	2.3739395	2.3964304	2.3906456	2.4652002	2.4637378	2.4337024	2.4300311	2.4376465	2.4803111	2.4804844	2.4841786	2.5122723	2.5173089	2.5090566	2.4751591	2.4652918	2.4555216	2.4331701	2.4548241	2.4458059	2.471061
0.5663103	0.5552957	0.5623747	0.5598469	0.5631111	0.578281	0.5801374	0.5895184	0.5940109	0.5882498	0.5915419	0.5921916	0.5971296	0.5963499	0.6184411	0.6038467	0.663267	0.6059661	0.6035187	0.5706821	0.5898278	0.5980826	0.6059259	0.6761318	0.6206935	0.6474969	0.6500865	0.6416461	0.6871124	0.7024153	1.3260544	0.7467493	0.6690558	0.6940894	0.7003826	0.661491	0.7615726	0.7565634	0.7657743	0.7631846	0.6730007	1.0879278	0.7043924	0.6551947	0.6573636	0.84792	1.4568625
0.5416604	0.5416604	0.5416604	0.5416604	0.5416604	0.5416604	0.5416604	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5486405	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.5734451	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.7164064	0.8121812	0.8121812	0.8121812	0.8121812	0.8121812
0.0770014	0.0769437	0.0771218	0.0773154	0.0775232	0.0773072	0.0794646	0.0797958	0.0795196	0.0800991	0.0801472	0.0808667	0.0808533	0.0806731	0.0811054	0.0804633	0.0797736	0.077991	0.0777176	0.0777785	0.0779133	0.0781965	0.077805	0.0778065	0.0778185	0.0780402	0.0778956	0.0786336	0.0784438	0.0808902	0.0808422	0.0798566	0.0797362	0.079986	0.081386	0.0813917	0.0815129	0.0824347	0.0826	0.0823292	0.0812169	0.0808932	0.0805726	0.0798392	0.0805497	0.0802538	0.0810825
0.0183035	0.0179475	0.0181763	0.0180946	0.0182001	0.0186904	0.0187504	0.0190536	0.0191988	0.0190126	0.019119	0.01914	0.0192996	0.0192744	0.0199884	0.0195167	0.0214372	0.0195852	0.0195061	0.0184448	0.0190636	0.0193304	0.0195839	0.021853	0.0200612	0.0209275	0.0210112	0.0207384	0.0222079	0.0227025	0.0428589	0.0241354	0.0216243	0.0224334	0.0226368	0.0213798	0.0246145	0.0244526	0.0247503	0.0246666	0.0217518	0.0351625	0.0227664	0.0211763	0.0212464	0.0274053	0.0470867
0.0175068	0.0175068	0.0175068	0.0175068	0.0175068	0.0175068	0.0175068	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0177324	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0185341	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0231547	0.0262502	0.0262502	0.0262502	0.0262502	0.0262502
5554.01	5549.85	5562.7	5576.66	5591.65	5576.07	5579.93	5582.01	5562.69	5575.84	5579.19	5571.19	5570.27	5576.77	5613.91	5628.79	5629.74	5687.49	5665.95	5670.39	5671.73	5709.88	5681.29	5681.4	5706.78	5723.04	5712,44	5766.56	5752.64	5785.23	5778.03	5707.59	86.8695	5716.84	5727.04	5727.44	5735.97	5739.52	5733.01	5730.9	5722.12	5697.57	5674.99	5662.61	5700.01	5679.07	5686.98
5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.24135E+13	5.22154E+13	5.22154E+13	5.19602E+13	5.19602E+13	5.14241E+13	5.14241E+13	5.15991E+13	5.16659E+13	5.22163E+13	5.26766E+13	5.44332E+13	5.44179E+13	5.44179E+13	5.43366E+13	5.45039E+13	5.45039E+13	5,45039E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.4739E+13	5.33843E+13	5.33495E+13	5.33495E+13	5.33495E+13	5.33495E+13	5.25253E+13	5.25253E+13	5.25253E+13	5.19701E+13	5.18073E+13	5.19586E+13	5.25895E+13	5.25734E+13	5.25734E+13	5.29406E+13	5.28202E+13	5.28202E+13	5.23532E+13
		397 6.35303E+12	397 6.35303E+12	397 6.35303E+12		574398 6.35303E+12					401 6.35303E+12		402 6.35303E+12						407 6.35303E+12	408 6.35303E+12	409 6.35303E+12	409 6.35303E+12	574409 6.35303E+12	410 6.35303E+12	410 6.35303E+12	410 6.35303E+12		410 6.35303E+12	411 6.35303E+12									415 6.35303E+12	418 6.35303E+12	420 6.35303E+12	421 6.35303E+12	421 6.35303E+12	423 6.35303E+12		424 6.35303E+12	425 6.35303E+12
				48:15.5 574397							23:36.6 574401	28:39.9 574401								09:03.2 574408	14:06.4 574409	19:09.3 574409	24:12.6 574	29:16.5 574410				49:29.4 574410	54:32.5 574411								34:56.2 574414	39:58.9 574415	45:02.0 574418	50:05.4 574420	55:08.3 574421	00:11.2 574421	05:14.1 574423		15:20.3 574424	20:23.5 574425

7.0919028	6.8568424	2.4510138	2.4824794	2.4837134	2,4842305	2.5190709	2.5139401	2.5188062	2.5351866	2.5339002	2.5344192	2.5390991	2.5441605	2.5457796	2.5467688	2.5394096	2.6031435	2,6011167	2.6107513	2.6181535	2.6175227	2.6136992	2,6129777	2.6299251	2.5889252	2,5894437	2,4737229	2,4716453	2.4708977	2.4698168	2.4787786	2.4805442	2.510372	2.5160389	2.5216513	2.5360608	2.5326557	2.5322202	2.5147176	2.5020411	2,4998955	2.5064137	2.5131502	2.5168369	2,5150627	2,5190469
2.435404	2.4503724	2.4510138	2.4824794	2.4837134	2,4842305	2.5190709	2.5139401	2.5188062	2.5351866	2.5339002	2.5344192	2.5390991	2.5441605	2.5457796	2.5467688	2.5394096	2.6031435	2.6011167	2.6107513	2.6181535	2.6175227	2.6136992	2.6129777	2.6299251	2.5889252	2.5894437	2,4737229	2.4716453	2.4708977	2.4698168	2.4787786	2.4805442	2.510372	2.5160389	2.5216513	2.5360608	2.5326557	2.5322202	2.5147176	2.5020411	2,4998955	2.5064137	2.5131502	2.5168369	2.5150627	2.5190469
7.0919028	6.8568424	1.4585642	0.830244	0.8398013	0.8484305	0.7175017	0.6730193	0.6730193	0.7010416	0.7096275	0.7093181	0.7131051	0.7390793	0.7316444	0.7422723	1.4370021	1.4316619	0.8060025	0.7186527	0.7462976	0.8216488	0.7883636	1,4467606	0.8128433	0.8063181	1.4513552	1.0389404	0.8004766	0.7670985	0.7402209	0.7466193	0.7553413	0.7520091	0.840974	1,0357196	0.8347488	0.7977075	0.8027631	0.8003281	0.9007562	0.8086633	0.7533704	0.7705855	0.7813062	0.7719375	0,7723057
0.8121812	0.8121812	0.8121812	0.8121812	0.8121812	0.8121812	0.8121812	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8321932	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.8309246	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.9067184	0.8837763	0.8837763	0.8837763	0.8837763	0.8837763	0.8837763
0.0799125	0.0804036	0.0804247	0.0814571	0.0814976	0.0815146	0.0826578	0.0824894	0.0826491	0.0831866	0.0831444	0.0831614	0.083315	0.0834811	0.0835342	0.0835666	0.0833252	0.0854165	0.08535	0.0856661	0.085909	0.0858883	0.0857628	0.0857391	0.0862952	0.0849499	0.0849669	0.0811698	0.0811016	0.0810771	0.0810416	0.0813357	0.0813936	0.0823724	0.0825583	0.0827425	0.0832153	0.0831036	0.0830893	0.082515	0.082099	0.0820286	0.0822425	0.0824635	0.0825845	0.0825263	0.082657
0.2292147	0.2216174	0.0471417	0.026834	0.0271429	0.0274218	0.0231901	0.0217524	0.0217524	0.0226581	0.0229356	0.0229256	0.023048	0.0238875	0.0236472	0.0239907	0.0464448	0.0462722	0.0260505	0.0232273	0.0241208	0.0265562	0.0254804	0.0467602	0.0262716	0.0260607	0.0469087	0.0335792	0.0258719	0.0247931	0.0239244	0.0241312	0.0244131	0.0243054	0.0271808	0.0334751	0.0269796	0.0257824	0.0259458	0.0258671	0.029113	0.0261365	0.0243494	0.0249058	0.0252523	0.0249495	0.0249614
0.0262502	0.0262502	0.0262502	0.0262502	0.0262502	0.0262502	0.0262502	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026897	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.026856	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0293057	0.0285642	0.0285642	0.0285642	0.0285642	0.0285642	0.0285642
5674.69	5692.52	5694.01	5713.35	5716.19	5717.38	5710.01	5698.38	5709.41	5715.13	5712.23	5713.4	5723.95	5735.36	5739.01	5741.24	5724.65	5715.44	5710.99	5720.19	5727.69	5726.31	5731.36	5735.02	5745.06	5742.56	5743.71	5750.85	5746.02	5737.61	5735.1	5755.91	5760.01	5754.45	5767.44	5755.01	5764.68	5756.94	5755.95	5743.01	5714.06	5709.16	5699.99	5715.31	5717.01	5712.98	5722.03
5.30049E+13	5.28466E+13	5.28466E+13	5.2354E+13	5.2354E+13	5.2354E+13	5.15634E+13	5.15634E+13	5.15634E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	5.12815E+13	4.99455E+13	4.99455E+13	4.98413E+13	4.97656E+13	4.97656E+13	4.98823E+13	4.9928E+13	4.96931E+13	5.04581E+13	5.04581E+13	5.28842E+13	5.28842E+13	5.28228E+13	5.28228E+13	5.28228E+13	5.28228E+13	5.21447E+13	5.21447E+13	5.19166E+13	5.17083E+13	5.17083E+13	5.17083E+13	5.19511E+13	5.19511E+13	5.19511E+13	5.17328E+13	5.17328E+13	5.16724E+13	5.16724E+13	5.16724E+13
		574427 6.35303E+12	574428 6.35303E+12	574428 6.35303E+12		574429 6.35303E+12	574429 6.35303E+12	574429 6.35303E+12	574430 6.35303E+12		574430 6.35303E+12		574432 6.35303E+12	574432 6.35303E+12	574433 6.35303E+12	574435 6.35303E+12	574435 6.35303E+12	574437 6.35303E+12	574438 6.35303E+12	574440 6.35303E+12	574441 6.35303E+12	574441 6.35303E+12	574442 6.35303E+12	574442 6.35303E+12	574443 6.35303E+12	574443 6.35303E+12								574446 6.35303E+12	574448 6.35303E+12	574448 6.35303E+12	574448 6.35303E+12	574449 6.35303E+12	574449 6.35303E+12	574450 6.35303E+12	574450 6.35303E+12	574450 6.35303E+12				
		35:34.7						05:51.7				26:04.3		36:10.4				01:25.6	06:28.6	11:32.0	16:35.1	21:38.0	26:41.0	31:44.0	36:47.2	41:49.9			56:59.4									47:30.1			02:38.8	07:41.8		17:48.3	22:51.1	27:54.2

2.5213009	2.5684819	2.5565013	2.5392517	2.5341371	2.5372654	2.540527	2.5353057	2.5407136
		0.7832399 2.5565013						
0.88377	0.88377	0.8837763	0.88377	0.88377	0.88377	0.95501	0.95501	0.95501
0.082731	0.0842791	0.083886	0.08332	0.0831522	0.0832548	0.0833618	0.0831905	0.083368
0.024628	0.0251649	0.0253148	0.0241284	0.0233991	0.0231231	0.0242656	0.0233018	0.0235938
0.0285642	0.0285642	0.0285642	0.0285642	0.0285642	0.0285642	0.0308666	0.0308666	0.0308666
5727.15	5728.02	5712.01	5714.36	5702.85	5709.89	5717.23	5705.48	5717.65
5.16724E+13	5.07309E+13	5.08262E+13	5.11925E+13	5.11925E+13	5.11925E+13	5.11925E+13	5.11925E+13	5.11925E+13
6.35303E+12	6.35303E+12	574453 6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12
574450	574451	574453	574454	574454	574454	574454	574454	574454
32:57.1	38:00.1	43:02.9	48:06.0	53:08.8	58:11.8	03:14.8	08:17.7	13:21.1

HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

BB10000919

FILE PRODUCED NATIVELY

ealized rev	2.2484294	2.2480744	2.2478716	2.2493421	2.2806172	2.2825627	2.2247506	2.2455467	2.2442657	2.2661373	2,2656139	2.2691954	2.2689395	2.2602762	2.185285	2.1837713	2.1668382	2.1668382	2.1682995	2.1683036	2.1856184	2.187116	2.1667245	2.1657754	2.1710449	2.168237	2.1644326	2.1786519	2.1787132	2.1819493	2.2001303	2.1733552	2.173229	2.1737133	2.175903	2.1999008	2.2143761	2.2132168	2.2131836	2.2247569	2.2230187	2.2259295
me mining rev r	512 2.2484294			209 2.2493421	748 2.2806172	771 2.2825627		545 2.2455467		967 2.2661373	911 2.2656139	559 2.2691954	351 2.2689395	191 2.2602762	364 2.185285	552 2.1837713	558 2.1668382	327 2.1668382	352 2.1682995	183 2.1683036	047 2.1856184	157 2.187116	215 2,1667245	703 2.1657754	552 2.1710449	926 2,168237	524 2.1644326	051 2.1786519	372 2.1787132	312 2.1819493	969 2.2001303	719 2.1733552	556 2.173229	292 2.1737133	587 2.175903	123 2.1999008	392 2.2143761	731 2.2132168		917 2.2247569	002 2.2230187	124 2.2259295
AP rev real ti	0.1869611 0.166612			0.1869611 0.157209	0.1869611 0.122748	0.1869611 0.081771	0.1869611 0.172079	0.1869611 0.241645	0.1869611 0.041757	0.0331832 0.08967	0.0331832 -0.09911	0.0331832 -0.25659	0.0331832 0.032351	0.0331832 0.041491	0.0331832 -0.5864	0.0331832 -0.97652	0.0331832 -0.95658	0.0331832 -0.93027	0.0331832 -0.82352	0.0331832 -0.96183	0.0331832 -0.99047	0.0142819 -0.96157	0.0142819 -0.09015	0.0142819 -0.58703	0.0142819 -0.53652	0.0142819 -0.92926	0.0142819 -0.80524	0.0142819 -0.59051	0.0142819 -0.60872	0.0142819 -0.59912	0.0142819 -0.89969	0.0142819 -0.72719		0.0113952 -0.95292	0.0113952 -0.93687	0.0113952 -0.93423	0.0113952 -0.86892	0.0113952 -0.8731	0.0113952 -0.83471	0.0113952 -0.84917	0.0113952 -0.85002	0.0113952 -0.89424
day ahead LN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
mining cost	0.0737773	0.0737656	0.073759	0.0738072	0.0748335	0.0748973	0.0730003	0.0736827	0.0736407	0.0743583	0.0743412	0.0744587	0.0744503	0.074166	0.0717053	0.0716557	0.0711001	0.0711001	0.071148	0.0711481	0.0717163	0.0717654	0.0710963	0.0710652	0.0712381	0.071146	0.0710211	0.0714877	0.0714897	0.0715959	0.0721925	0.0713139	0.0713098	0.0713256	0.0713975	0.0721849	0.0726599	0.0726219	0.0726208	0.0730005	0.0729435	0.073039
BTC_price day_ahead_LMP real time LMP breakeven mining cost day ahead LMP rey real time mining rey realized rev	0.005385	0.0064427	0.0066197	0.0050811	0.0039673	0.0026429	0.0055617	0.0078101	0.0013496	0.0028982	-0.0032033	-0.0082933	0.0010456	0.001341	-0.0189529	-0.0315616	0.0309173	-0.0300668	-0.0266166	-0,031087	0.0320125	0.0310784	-0.0029138	0.0189733	0.0173406	-0.0300341	0.0260257	0.0190855	-0.0196742	-0.0193638	-0.0290785	0.0235031	0.0186023	-0.030799	-0.0302803	-0.030195	0.0280841	-0.028219	0.0269783	0.0274456	0.0274731	0.0289024
ihead LMP real ti	0.0060427	0.0060427 0	0.0060427 0	0.0060427 0	0.0060427 0	0.0060427 0	0.0060427 0	0.0060427 0	0.0060427 0	0.0010725 0	0.0010725 -0	0.0010725 -0	0.0010725 0	0.0010725	0.0010725 -0	0.0010725 -0	0.0010725 -0	0.0010725 -0	0.0010725 -0	0.0010725	0.0010725 -0	0.0004616 -0	0.0004616 -0	0.0004616 -0	0.0004616 -0	0.0004616 -0	0.0004616 -0		0.0004616 -0	0.0004616 -0	0.0004616 -0	0.0004616 -0	0.0003683 -0	0.0003683	0.0003683 -0	0.0003683	0.0003683 -0	0.0003683	0.0003683 -0	0.0003683 -0	0.0003683 -0	0.0003683 -0
3TC price day a	5320.85	5320.01	5319.53	5323.01	5321.95	5326.49	5325.49	5329.01	5325.97	5326.24	5325.01	5321,61	5321.01	5327.95	5327.05	5323.36	5323.1	5323.1	5326.69	5326.7	5326.69	5330.34	5326.73	5330.77	5343.74	5336,19	5332.48	5331.92	5332.07	5339.99	5343.15	5339.93	5339.62	5340.81	5346.19	5351.26	5348.15	5345.35	5345.27	5350.24	5346.06	5353.06
datetime block_height network_diff est_network_hashrate		5.38327E+13	5.38327E+13	5.38327E+13	5.30839E+13	5.30839E+13	5.44532E+13	5.39845E+13	5.39845E+13	5.34662E+13	5.34662E+13	5.33477E+13	5.33477E+13	5.36221E+13	5.54528E+13	5.54528E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.58834E+13	5.54406E+13	5.54406E+13	5.59245E+13	5.59914E+13	5.59914E+13	5.59847E+13	5.60441E+13	5.56725E+13	5.56725E+13	5.56725E+13	5.52451E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.5892E+13	5.53347E+13	5.49411E+13	5,49411E+13	5,49411E+13	5,47061E+13	5.47061E+13	5.47061E+13
etwork diff est	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12
lock_height nu	574204 6		574204 6	574204 6	574205 6	574205 6	574206 6	574207 6	574207 6	574208 6	574208 6	574209 6		574210 6		574212 6	574215 6	574215 6	574215 6	574215 6	574216 6	574216 6	574219 6							574227 6	574228 6	574229 6		574229 6	574229 6	574230 6	574231 6	574231 6	574231 6	574232 6	574232 6	574232 6
datetime b	18:57.8	24:01.3	29:04.5	34:07.5	39:10.8	44:13.7	49:17.3	54:21.0	59:24.0	04:26.9	09:29.9	14:32.8	19:35.8	24:38.8	29:41.7	34:44.6	39:47,5	44:50.4	49:53.4	54:56.2	59:59.2	05:02.6	10:05.7	15:08.7	20:11.5	25:14.5	30:17.5	35:20.7	40:24.0	45:26.9	50:29.9	55:32.9	00:36.0	05:38.8	10:41.7	15:45.1	20:48.1	25:51.1	30:54.2	35:57.2	41:00.3	46:03.7

2,2294141	2.2350485	2.2832021	2.2765324	2.2791195	2.293473	2.2931563	2.2893565	2.2857193	2.2966332	2.3109964	2.3108556	2.3067736	2.3043114	2.3156641	2.2776282	2.2762553	2.2639687	2.2499632	2.2518446	2.2518404	2.2536211	2.2437799	2.2073275	2.2045935	2.2138386	4.9234853	2.1941337	2.1774367	2.1813562	2.182771	2.182397	2.182397	2.1711281	2.1711281	2.1726015	2.1733221	2.170197	2.1700634	2.2339708	2.2356531	2.2344996	2,234916	2.2764693
2.2294141	2,2350485	2.2832021	2.2765324	2.2791195	2.293473	2.2931563	2.2893565	2.2857193	2.2966332	2.3109964	2,3108556	2,3067736	2.3043114	2.3156641	2.2776282	2,2762553	2.2639687	2.2499632	2.2518446	2.2518404	2,2536211	2.2437799	2.2073275	2.2045935	2.2138386	2.1959243	2.1941337	2.1774367	2.1813562	2.182771	2.182397	2.182397	2.1711281	2.1711281	2.1726015	2.1733221	2.170197	2.1700634	2.2339708	2.2356531	2.2344996	2.234916	2.2764693
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0.0113952	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.0899364	0.3816697	0.3816697	0.3816697	0.3816697	0.3816697	0,3816697	0.3816697	0.3816697	0.3816697	0.3816697	0.3816697	0.3816697	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5307664	0.5425174	0.5425174	0.5425174	0.5425174	0.5425174	0.5425174	0.5425174
0.0731533	0.0733382	0,0749183	0.0746994	0.0747843	0.0752553	0.0752449	0.0751202	0.0750009	0.075359	0.0758303	0.0758257	0.0756917	0.0756109	0.0759835	0.0747354	0.0746903	0.0742872	0.0738276	0.0738894	0.0738892	0.0739476	0.0736247	0.0724286	0.0723389	0.0726423	0.0720545	0.0719957	0.0714478	0.0715764	0.0716229	0.0716106	0.0716106	0.0712408	0.0712408	0.0712892	0.0713128	0.0712103	0.0712059	0.0733029	0.0733581	0.0733202	0.0733339	0.0746974
-0.0264087	-0.0263978	-0.0027561	-0.0007245	-0.0182589	-0.0018612	-0.0145596	-0.0032024	-0.0159588	-0.031347	-0.0299955	-0.005314	-0.0015188	-0.0315408	-0.0303257	9.42E-05	0.0004518	0.0010006	-0.0032478	-0.0012084	0.0049192	-0.0153369	-0.001234	0.0019206	0.0019529	0.0052837	0.1591301	0.0137192	0.0100247	0.010676	0.0084567	0.00695	0.0068908	0.0079862	0.0077288	9096200.0	0.0094797	0.0099931	0.0140424	0.0115677	0.0089848	0.0087186	0.0076954	0.0085314
0.0003683	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0029068	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0123358	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0171547	0.0175345	0.0175345	0.0175345	0.0175345	0.0175345	0.0175345	0.0175345
5361.44	5374.99	5374.51	5358.81	5364.9	5359.77	5359.03	5350.15	5341.65	5347.88	5351.2	5355.44	5345.98	5350.18	5350.99	5348.27	5354.48	5359.65	5357.51	5361.99	5361.98	5366.22	5361.59	5360.9	5354.26	5358.27	5362.43	5360.24	5358.19	5365.45	5368.93	5368.01	5368.01	5363.48	5363.48	5367.12	5368.9	5361.18	5360.85	5364.69	5368.73	5365.96	5366.96	5369.99
5.47061E+13	5,47061E+13	5.35475E+13	5.35475E+13	5.35475E+13	5.31615E+13	5.31615E+13	5.31615E+13	5.31615E+13	5.29706E+13	5.26741E+13	5.2719E+13	5.2719E+13	5.28168E+13	5.25658E+13	5.34165E+13	5.35108E+13	5.38531E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.41667E+13	5.43573E+13	5.52479E+13	5.52479E+13	5.50584E+13	5.55506E+13	5.55733E+13	5.5978E+13	5.59531E+13	5.59531E+13	5.59531E+13		5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.61961E+13	5.46276E+13	5,46276E+13	5.46276E+13	5.46276E+13	5.36607E+13
		233 6.35303E+12	233 6.35303E+12				234 6.35303E+12	234 6.35303E+12		237 6.35303E+12	238 6.35303E+12	238 6,35303E+12							246 6.35303E+12	246 6.35303E+12		249 6.35303E+12	251 6.35303E+12	251 6.35303E+12	252 6.35303E+12				257 6.35303E+12					258 6.35303E+12			258 6.35303E+12	258 6.35303E+12	260 6.35303E+12	260 6.35303E+12	E.	260 6.35303E+12	261 6.35303E+12
		06:15.5 574233	11:18.3 574233				31:30.3 574234	36:33.4 574234		46:40.5 574237	51:43.8 574238									37:10.8 574246			52:19.3 574251	57:22.2 574251	02:25.2 574252				22:39.3 574257					47:54.2 574258	53:01.0 574258		03:06.9 574258	08:10.0 574258	13:13.1 574260	18:16.1 574260	23:19.1 574260		33:25.3 574261

2.2747821	2.2739257	2.2734806	2.2784278	2.3229796	2.2123564	2.1764425	2.1774474	2.1676825	2.172064	2.168767	2.1989837	2.2025454	2.2011814	2.2007005	2.2011238	2.2071043	2.2075112	2.2061384	2.2049258	2.276015	2.2781314	2.2775461	2.2206282	2.1806275	2,1536405	2.1550023	2.1800845	2.1816984	2.2039945	2.2109326	2.213514	2.1781617	2.17769	2.2054203	2.2016767	2.2025453	2.2025372	2.2037157	2.2031652	2.2043478	2.2055508	2.2926386	7 7218256
0.246252 2.2747821	0.274586 2.2739257	0.272093 2.2734806	0.337116 2.2784278	0.275134 2.3229796	0.261041 2.2123564	0.251811 2.1764425	0.27609 2.1774474	0.257869 2.1676825	0.252059 2.172064	0.248049 2.168767	0.252953 2.1989837	0.266016 2.2025454	0.328821 2.2011814	0.370473 2.2007005	0.52882 2.2011238	0.456176 2.2071043	0.306813 2.2075112	0.282232 2.2061384	0.483735 2.2049258	0.496637 2.276015	0.49629 2.2781314	0.490671 2.2775461	0.619122 2.2206282	0.594586 2.1806275	0.535172 2.1536405	0.53029 2.1550023	0.416926 2.1800845	0.557873 2.1816984	0.55377 2.2039945	0.617566 2.2109326	0.613942 2.213514	0.654851 2.1781617	0.640981 2.17769	0.625294 2.2054203	0.609892 2.2016767	0.634898 2.2025453	0.626628 2.2025372	0.634165 2.2037157	0.633586 2.2031652	0.635489 2.2043478	0.640334 2.2055508	0.639264 2.2926386	
0.5425174	0.5425174	0.5425174	0.5425174	0.5425174	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.5946699	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.6706926	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7306698	0.7630516	0.7630516	0.7630516	
0.074642	0.0746139	0.0745993	0.0747616	0.0762235	0.0725936	0.0714152	0.0714482	0.0711278	0.0712715	0.0711633	0.0721548	0.0722717	0.072227	0.0722112	0.0722251	0.0724213	0.0724347	0.0723896	0.0723498	0.0746825	0.0747519	0.0747327	0.0728651	0.0715525	0.070667	0.0707117	0.0715347	0.0715877	0.0723193	0.0725469	0.0726316	0.0714716	0.0714561	0.072366	0.0722432	0.0722717	0.0722714	0.0723101	0.072292	0.0723309	0.0723703	0.0752279	0000000
0.007959	0.0088748	0.0087942	0.0108958	0.0088925	0.008437	0.0081387	0.0089234	0.0083345	0.0081467	0.0080171	0.0081756	0.0085978	0.0106277	0.0119739	0.0170918	0.0147439	0.0099164	0.0091219	0.0156346	0.0160516	0.0160404	0.0158588	0.0200104	0.0192174	0.0172971	0.0171393	0.0134753	0.0180308	0.0178982	0.0199601	0.019843	0.0211652	0.0207169	0.0202099	0.0197121	0.0205203	0.020253	0.0204966	0.0204779	0.0205394	0.020696	0.0206614	0000000
0.01/5345	0.0175345	0.0175345	0.0175345	0.0175345	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0192201	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0216772	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0236157	0.0246623	0.0246623	0.0246623	000000
5366,01	5363.99	5362.94	5374.61	5373.07	5365.69	5358.95	5350,35	5350.01	5356.14	5348.01	5356.18	5355.34	5355.28	5354.11	5355.14	5369.69	5370.68	5367.34	5364.39	5366.28	5371.27	5369.89	5373.89	5386.3	5376.94	5380.34	5376.01	5379.99	5387,53	5404.49	5410.8	5402.18	5401.01	5408.19	5399.01	5401.14	5401.12	5404.01	5402.66	5405.56	5408.51	5410.26	
5.36607E+13	5.36607E+13	5.36607E+13	5.36607E+13	5.26165E+13	5.51716E+13	5.60115E+13	5,58958E+13	5.6144E+13	5.6095E+13	5,6095E+13	5.54087E+13	5.53104E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5.53441E+13	5,36343E+13	5,36343E+13	5.36343E+13	5.50501E+13	5.61893E+13	5.67946E+13	5.67946E+13	5.6096E+13	5.6096E+13	5.56063E+13	5.56063E+13	5.56063E+13	5.64188E+13	5.64188E+13	5.57835E+13	5.36818E+13	21.1000011							
6.35303E+12		6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	
2/4/61	574261	574261	574261	574263	574266	574268	574269	574270	574271	574271	574272	574273	574274	574274	574274	574274	574274	574274	574274	574275	574275	574275	574277	574280	574281	574281	574282	574282	574283	574283	574283	574284	574284	574285	574285	574285	574285	574285	574285	574285	574285	574286	100
28:78.7	43:31.2	48:34.0	53:36.9	58:39.7	03:42.6	08:45.5	13:48.7	18:51.9	23:54.8	28:57.8	34:00.7	39:03.7	44:07.1	49:10.1	54:13.2	59:16.2	04:19.1	09:22.5	14:25.5	19:28.4	24:31.3	29:34.0	34:37.0	39:39.9	44:42.8	49:45.4	54:48.5	59:51.6	04:54.7	09:58.2	15:01.2	20:04.6	25:08.2	30:11.3	35:14.3	40:17.3	45:20.2	50:23.3	55:26.4	00:29.5	05:32.6	10:35.6	

רטזיוטרר ר	2.2203387	2.1816166	2.181568	2.1794376	2,1762581	2.1975834	2.1719525	2.1581456	2.1460054	2.1534583	2.1221966	2.1221927	2.1243313	2.13442	2.6198847	6.8400945	4.8586505	5.5232479	5.4542393	6.8026912	2.0981366	2.0952297	2.0434454	2.0436461	2.0357628	2.0430488	2.0418532	2.0492645	2.0488848	2.0521662	2.051599	6.6173296	2.0290984	7.0344906	1.9731924	1.9766573	1.9786696	1.9891864	1.9904458	1.9910313	1.9916757	1.994003	1.9894957
בסששטננ נ	2.2203367	2.1816166	2.181568	2.1794376	2.1762581	2.1975834	2.1719525	2.1581456	2.1460054	2.1534583	2.1221966	2.1221927	2.1243313	2.13442	2.1287047	2.1286771	2.1248138	2.1248138	2.0989108	2.0979226	2.0981366	2.0952297	2.0434454	2.0436461	2.0357628	2.0430488	2.0418532	2.0492645	2.0488848	2.0521662	2.051599	2.0588338	2.0290984	2.0189017	1.9731924	1.9766573	1.9786696	1.9891864	1.9904458	1.9910313	1.9916757	1.994003	1.9894957
0 64001	0.640684	0.673307	0.675739	0.657948	0.676024	0.678604	0.677722	0.660569	0.666677	0.671776	0.745614	0.690603	0.797596	0.820377	2.619885	6.840095	4.858651	5.523248	5.454239	6.802691	1.173273	0.874429	0.782259	0.807584	0.802413	0.93475	0.934589	0.936186	0.805173	0.890951	0.813502	6.61733	0.851627	7.034491	1.527387	1.160986	0.952015	0.878418	0.874439	0.85985	0.865463	0.866045	0.831265
0 7630616	0.7630516	0.7630516	0.7630516	0.7630516	0.7630516	0.7630516	0.7630516	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.7982706	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.8723873	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041	0.9256041
86386700	0.0711347	0.071585	0.0715834	0.0715135	0.0714091	0.0721089	0.0712679	0.0708148	0.0704165	0.070661	0.0696352	0.0696351	0.0697053	0.0700363	0.0698488	0.0698479	0.0697211	0.0697211	0.0688712	0.0688387	0.0688458	0.0687504	0,0670512	0.0670578	0.0667991	0.0670382	0.0669989	0.0672421	0.0672297	0.0673373	0.0673187	0.0675561	0.0665804	0.0662458	0.064746	0.0648597	0.0649257	0.0652708	0.0653121	0.0653313	0.0653525	0.0654288	0.0652809
0.0207146	0.0207073	0.0217617	0.0218403	0.0212653	0.0218495	0.0219329	0.0219044	0.02135	0.0215474	0.0217122	0.0240987	0.0223207	0.0257788	0.0265151	0.0846763	0.2210761	0.1570346	0.1785148	0.1762844	0.2198672	0.0379209	0.0282621	0.0252831	0.0261016	0.0259345	0.0302117	0.0302065	0.0302581	0.0260237	0.0287961	0.0262929	0.2138762	0.0275251	0.2273591	0.0493661	0.0375238	0.0307697	0.028391	0.0282624	0.0277909	0.0279723	0.0279911	0.026867
0.0246623	0.0246623	0.0246623	0.0246623	0.0246623	0.0246623	0.0246623	0.0246623	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0258006	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0281961	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161	0.0299161
5377.7	5379.31	5386.34	5386.22	5380.96	5373.11	5379.99	5381.68	5378.02	5388.44	5391.26	5388.44	5388.43	5393.86	5390.38	5391.27	5391.2	5394.99	5394.99	5394.98	5392.44	5392.99	5393.03	5396.48	5397.01	5396.19	5399.99	5396.83	5396.6	5395.6	5391.32	5389.83	5386.52	5388.05	5393.81	5393.01	5402.48	5407.98	5401.85	5405.27	5406.86	5408.61	5414.93	5402.69
5.50908F+13	5,6446E+13	5.61643E+13	5.61643E+13	5.61643E+13	5.61643E+13	5.56905E+13	5.63654E+13	5.66874E+13	5.71185E+13	5.69506E+13	5.77593E+13	5.77593E+13	5.77593E+13	5.74492E+13	5.7613E+13	5.7613E+13	5.77583E+13	5.77583E+13	5.8471E+13	5.8471E+13	5.8471E+13	5.85526E+13	6.00748E+13	6.00748E+13	6.02983E+13	6.01255E+13	6.01255E+13	5.99055E+13	5.99055E+13	5.97623E+13	5.97623E+13	5.95157E+13	6.04051E+13	6.0775E+13	6.21737E+13	6.21737E+13	6.21737E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13
6.35303E+12		6.35303E+12																																									
574287	574288	574289	574289	574289	574289	574290	574293	574294	574295	574296	574298	574298	574298	574300	574301	574301	574302	574302	574305	574305	574305	574306	574309	574309	574310	574311	574311	574312	574312	574315	574315	574316	574317	574319	574320	574320	574320	574321	574321	574321	574321	574321	574321
20:42.0	25:45.3	30:48.4	35:51.4	40:54.5	45:57.5	51:00.5	56:03.8	01:07.0	8.60:90	11:12.8	16:15.8	21:19.0	26:22.1	31:25.5	36:29.7	41:33.9	46:37.9	51:42.1	56:46.2	01:50.2	06:53.7	11:56,7	17:00:1	22:03.0	27:06.2	32:09.2	37:12.3	42:16.0	47:18.9	52:22.0	57:25.5	02:29.6	07:32.4	12:36.3	17:39.2	22:42.0	27:44.8	32:47.7	37:50.6	42:53.6	47:56.6	52:59.4	58:02.4

1.9854634	1.9867744	1.9877281	1.988321	1.9863178	1.9860895	2.086093	2.0852655	2.0955189	2.0971976	2.0991404	2.0553977	2.0551771	2.0613959	2.0616058	2.0603812	2.0605832	2.0627523	2.0704516	2.0628912	2.0645162	2.0593055	2.0564494	2.0744785	2.0819329	2.0816439	2.0338434	2.0460639	2.0303561	2.0331615	2.0501593	2.0491574	2.0611697	2.0595816	2.0602	2.0609521	7.035889	2.0936499	2.0952337	2.0903567	2.0900313	7.0102614	2.0763241	2.0759816
0.832258 1.9854634	0.836067 1.9867744	0.828796 1.9877281	0.830872 1.988321	0.834662 1.9863178	0.831547 1.9860895	0.829928 2.086093	0.808509 2.0852655	0.849903 2.0955189	0.827169 2.0971976	0.854755 2.0991404	0.940681 2.0553977	1.113772 2.0551771	0.890181 2.0613959	0.854507 2.0616058	0.799904 2.0603812	0.845284 2.0605832	0.838941 2.0627523	0.843452 2.0704516	0.842936 2.0628912	0.803082 2.0645162	0.837719 2.0593055	0.838486 2.0564494	0.847072 2.0744785	0.877316 2.0819329	0.839903 2.0816439	0.840928 2.0338434	0.833808 2.0460639	0.820569 2.0303561	0.835232 2.0331615	0.804585 2.0501593	0.823892 2.0491574	0.819947 2.0611697	0.840426 2.0595816	0.820145 2.0602	0.826079 2.0609521	7.035889 2.1012014	0.832298 2.0936499	0.834359 2.0952337	0.839343 2.0903567	0.83025 2.0900313	7.010261 2.0997122	0.843032 2.0763241	0.772912 2.0759816
0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.8	0.9054869 0.9	0.9366466 1.1	0.9366466 0.8	0.9366466 0.8	0.9366466 0.7	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.9366466 0.8	0.899893 0.8	8.0 8899893 0.8	8.0 889883 0.8	0.899893 0.8	0.899893 0.8	8.0 8899893 0.8	8.0 8899893 0.8	0.899893 0.8	0.899893 0.8	8.0 8898893 0.8	8.0 8899893 0.8	8.0 8899893 0.8	0.8718892 7.0	0.8718892 0.8	0.8718892 0.8	0.8718892 0.8	0.8718892 0.	0.8718892 7.0	0.8718892 0.8	0.8718892 0.7
0.0651486	0.0651917	0.065223	0.0652424	0.0651767	0.0651692	0.0684506	0.0684234	0.0687599	0.068815	0.0688787	0.0674434	0.0674361	0.0676402	0.0676471	0.0676069	0.0676135	0.0676847	0.0679373	0.0676893	0.0677426	0.0675716	0.0674779	0.0680695	0.0683141	0.0683046	0.0667361	0.0671371	0.0666217	0.0667137	0.0672715	0.0672386	0.0676328	0.0675807	0.067601	0.0676256	0.0689463	0.0686985	0.0687505	0.0685905	0.0685798	0.0688975	0.06813	0.0681188
0.0268991	0.0270222	0.0267872	0.0268543	0.0269768	0.0268761	0.0268238	0.0261315	0.0274694	0.0267346	0.0276262	0.0304034	0.0359978	0.0287712	0.0276182	0.0258534	0.0273201	0.0271151	0.0272609	0.0272442	0.0259561	0.0270756	0.0271004	0.0273779	0.0283554	0,0271462	0.0271793	0.0269492	0.0265213	0.0269952	0.0260047	0.0266287	0.0265012	0.0271631	0.0265076	0.0266994	0.2274043	0.0269004	0.026967	0.0271281	0.0268342	0.226576	0.0272473	0.024981
0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.0292659	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.030273	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.0290851	0.02818	0.02818	0.02818	0.02818	0.02818	0.02818	0.02818	0.02818
5391.74	5395.3	5397.89	5399.5	5394.06	5393.44	5394.4	5392.26	5392.81	5397.13	5402.13	5403.36	5402.78	5401.47	5402.02	5405.01	5405.54	5411.23	5414.16	5414.16	5414.18	5407.51	5400.01	5403.78	5401.4	5400.65	5403.84	5403.99	5406.15	5405.72	5402.02	5399.38	5399.01	5394.85	5396.47	5398.44	5394.51	5393.4	5397.48	5396.99	5396.15	5395.98	5396.77	5395.88
6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	6.17749E+13	5.8824E+13	5.8824E+13	5.85421E+13	5.85421E+13	5.85421E+13	5.98016E+13	5.98016E+13	5.96067E+13	5.96067E+13	5.96752E+13	5.96752E+13	5.96752E+13	5.94855E+13	5.97035E+13	5.96567E+13	5.9734E+13	5,9734E+13	5.92562E+13	5.9018E+13	5.9018E+13	6.04407E+13	6.00814E+13	6.05704E+13	6.0482E+13	5.99395E+13	5.99395E+13	5.95861E+13	5.95861E+13	5.95861E+13	5.95861E+13	5.84022E+13	5.86008E+13	5.86008E+13	5.87322E+13	5.87322E+13	5.84595E+13	5.91267E+13	5.91267E+13
6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12		6.35303E+12	6.35303E+12					6.35303E+12			6.35303E+12	6,35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12	6.35303E+12										
574321	574321	574321	574321	574321	574321	574322	574322	574323	574323	574323	574326	574326	574327	574327	574328	574328	574328	574329	574330	574331	574333	574333	574334	574335	574335	574337	574338	574341	574342	574343	574343	574344	574344	574344	574344	574346	574347	574347	574348	574348	574349	574350	574350
03:05.3	08:08.5	13:11.4	18:14.9	23:17,9	28:20.8	33:24.0	38:27.3	43:30.4	48:33.4	53:36.4	58:39.2	03:42.1	08:42.0	13:48.1	18:51.1	23:54.0	28:57.0	34:00.5	39:03.4	44:06.6	49:10.2	54:13.3	59:16.4	04:19.8	09:23.3	14:26.3	19:29.7	24:32.5	29:35.5	34:38.6	39:41.6	44:44.4	49:47.3	54:50.3	59:53.1	04:56.9	10:00.6	15:04.1	20:07.3	25:10.3	30:14.9	35:17.9	40:20.9

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2.0716025	2.0705505	2.0701512	2.0693795	2.0598235	2.0624611	2.0654212	2.0550568	2.0560999	2.0603871	2.0611169	2.0633446	2.0417971	2.0409989	2.0438855	2.0543694	2.0560562	2.0557835	2.0507521	2.0507217	2.0479551	2.0674304	2.0686576	2.0996263	2.1049121	2.1048385	2.1267343	2.1271066	2.1391255	2.1342664	2.1146321	2.1167686	2.1262058	2.1297391	2.1518775	2.1604697	2.1710796	2.1682387	2.162379	2.1610546	2.1618532	2.1769189	2.1885032
2.0716025	2.0705505	2.0701512	2.0693795	2.0598235	2.0624611	2.0654212	2.0550568	2.0560999	2.0603871	2.0611169	2.0633446	2.0417971	2.0409989	2.0438855	2.0543694	2.0560562	2.0557835	2.0507521	2.0507217	2.0479551	2.0674304	2.0686576	2.0996263	2.1049121	2.1048385	2.1267343	2.1271066	2.1391255	2.1342664	2.1146321	2.1167686	2.1262058	2.1297391	2.1518775	2.1604697	2.1710796	2.1682387	2.162379	2.1610546	2.1618532	2.1769189	2,1885032
0.795539	0.771115	0.778076	0.780189	0.702251	0.704399	0.754521	0.713718	0.772767		0.784094	0.77419	0.725778	0.77147	0.683186	0.678347	0.671581	0.679074	0.681757	0.707787	0.699693	0.762377	1.115316	0.740988	0.697818	0.747105	1.012453	1.494653	1.343616	0.754803	0.7663	0.718956	0.666429	0.656797	0.641225	0.621572	0.619032	0.60785	0.616142	0.606718	0.598943	0.610632	0.602142
0.8718892	0.8718892	0.8718892	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	0.9108922	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	1.1090567	0.834195	0.834195	0.834195	0.834195	0.834195	0.834195	0.834195	0,834195	0.834195	0.834195	0.834195	0.834195	0.6426455	0.6426455	0.6426455	0,6426455
0.0679751	0.0679406	0.0679275	0.0679022	0.0675886	0.0676752	0.0677723	0.0674322	0.0674664	0.0676071	0.067631	0.0677041	0.0669971	0.0669709	0.0670656	0.0674096	0.067465	0.067456	0.0672909	0.0672899	0.0671992	0.0678382	0.0678785	0.0688946	0.0690681	0.0690657	0.0697841	0.0697964	0.0701907	0.0700313	0.069387	0.0694571	0.0697668	0.0698827	0.0706092	0.0708911	0.0712392	0.071146	0.0709537	0.0709103	0.0709365	0.0714308	0.0718109
0.0257123	0.0249229	0.0251479	0.0252162	0.0226972	0.0227666	0.0243866	0.0230678	0.0249763	0.0253991	0.0253424	0.0250223	0.0234576	0.0249344	0.022081	0.0219246	0.0217059	0.0219481	0.0220348	0.0228761	0.0226145	0.0246405	0.0360477	0.0239492	0.0225539	0.0241469	0.0327231	0.0483081	0.0434265	0.0243957	0.0247673	0.0232371	0.0215394	0.0212281	0.0207248	0.0200896	0.0200075	0.0196461	0.0199141	0.0196095	0.0193582	0.019736	0.0194616
0.02818	0.02818	0.02818	0.0294406	0.0294406	0.0294406	0.0294406	0.0294406	0.0294406	0.0294406	0,0294406	0.0294406	0.0294406	0.0294406	0.0294406	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0358454	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0269617	0.0207707	0.0207707	0.0207707	7077070
5395.8	5393.06	5392.02	5390.01	5365.12	5371.99	5379.7	5378.3	5381.03	5392.25	5394.16	5399.99	5396.88	5394.77	5402.4	5407.57	5412.01	5413.47	5411.11	5411.03	5403.73	5407.93	5411.14	5422.09	5435.74	5435.55	5427.15	5428.1	5441.31	5428.95	5433.74	5439.23	5433.99	5443.02	5441.82	5444.99	5471.73	5464.57	5469.53	5466.18	5468.2	5462.25	5457 26
5,92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.92508E+13	5.95341E+13	5.95341E+13	5.95341E+13	5.95341E+13	5.95341E+13	6.01278E+13	6.01278E+13	6.01278E+13	5.98782E+13	5.98782E+13	5.99023E+13	6.0023E+13	6.0023E+13	6.0023E+13	5.95038E+13	5.95038E+13	5.87448E+13	5.87448E+13	5.87448E+13	5.80502E+13	5.80502E+13	5.78645E+13	5.78645E+13	5.84533E+13	5.84533E+13	5.81378E+13	5.81378E+13	5.7527E+13	5.73316E+13	5.73316E+13	5.73316E+13	5.75391E+13	5.75391E+13	5.75391E+13	5.70787E+13	5.67247F+13
6.35303E+12	6 35303F+12																																									
574351	574351	574351	574351	574351	574351	574351	574353	574353	574353	574353	574353	574356	574356	574356	574357	574357	574359	574360	574360	574360	574361	574361	574362	574362	574362	574363	574363	574364	574364	574367	574367	574368	574368	574369	574370	574370	574370	574373	574373	574373	574374	574375
45:24.0	50:27.1	55:30.2	00:33.0	05:35.8	10:38.7	15:41.6	20:44.5	25:47.5	30:50.5	35:53.6	40:56.7	45:59.6	51:02.7	56:05.8	01:08.8	06:12.1	11:15.1	16:18.2	21:21.3	26:24.5	31:27.6	36:30.8	41:34.3	46:37.4	51:40.5	56:43.6	01:47.3	06:50.1	11:53.2	16:56.5	21:59.8	27:03.6	32:06.7	37:09.8	42:13.0	47:16.2	52:19.8	57:22.8	02:26.3	07:29.4	12:32.4	17:35.9

0.0716775 0.6426455 0.605456 2.1844367 2.1844367	0.0723014 0.6426455 0.612445 2.2034492 2,2034492	0.0723693 0.6426455 0.680467 2.205521 2.205521	0.0724106 0.6426455 0.659202 2.206777 2.206777	0.0722702 0.6426455 0.659068 2.2024995 2.2024995	0.0721999 0.6426455 0.64534 2.2003578 2.2003578	0.0722217 0.6426455 0.610768 2.2010221 2.2010221	0.0722636 0.5594818 0.582322 2.2022993 2.2022993	0.0722235 0.5594818 0.581326 2.2010766 2.2010766	0.0722859 0.5594818 0.583092 2.2029789 2.2029789	0.0722564 0.5594818 0.572242 2.202078 2.202078	0.0723849 0.5594818 0.56717 2.2059953 2.2059953	0.0740521 0.5594818 0.556997 2.2568058 2.2568058	0.0744685 0.5594818 0.565766 2.2694951 2.2694951	0.0745004 0.5594818 0.579491 2.270467 2.270467	0.0746893 0.5594818 0.566515 2.2762247 2.2762247	0.0748194 0.5594818 0.57097 2.2801879 2.2801879	0.0748507 0.5594818 0.569646 2.2811424 2.2811424	0.0757667 0.5594818 0.569701 2.3090591 2.3090591	0.0757711 0.5296866 0.569655 2.3091936 2.3091936	0.0758666 0.5296866 0.569358 2.3121029 2.3121029	0.0764543 0.5296866 0.569268 2.3300147 2.3300147	0.0753459 0.5296866 0.584689 2.296235 2.296235	0.0756203 0.5296866 0.60165 2.3045972 2.3045972	0.0757157 0.5296866 0.60023 2.3075042 2.3075042	0.0759358 0.5296866 0.606322 2.3142106 2.3142106	0.076761 0.5296866 0.604803 2.3393597 2.3393597			0.0744684 0.5296866 0.605471 2.2694909 2.2694909	0.0743793 0.5296866 0.594599 2.2667759 2.2667759	0.0745816 0.5494201 0.593711 2.2729411 2.2729411	0.0745356 0.5494201 0.592124 2.2715405 2.2715405	0.0758421 0.5494201 0.58666 2.3113551 2.3113551	0.0759746 0.5494201 0.585286 2.3153934 2.3153934	0.0760493 0.5494201 0.585818 2.3176694 2.3176694	0.0767506 0.5494201 0.588695 2.3390422 2.3390422	0.0769196 0.5494201 0.577625 2.3441927 2.3441927	0.0773179 0.5494201 0.58502 2.3563317 2.3563317	0.0774794 0.5494201 0.582096 2.3612541 2.3612541	0.0773636 0.5494201 0.600286 2.3577261 2.3577261	0.0774176 0.5494201 0.6017 2.3593697 2.3593697	
0.0195687	0.0197946	0.0219931	0.0213058	0.0213015	0.0208578	0.0197404	0.018821	0.0187888	0.0188459	0.0184952	0.0183313	0.0180025	0.0182859	0.0187295	0.0183101	0.0184541	0.0184113	0.0184131	0.0184116	0.018402	0.0183991	0.0188975	0.0194457	0.0193998	0.0195967	0.0195476	0.0198241	0.0195437	0.0195692	0.0192178	0.0191891	0.0191378	0.0189612	0.0189168	0.018934	0.019027	0.0186692	0.0189082	0.0188137	0.0194016	0.0194473	
0.0207707	0.0207707	0.0207707	0.0207707	0.0207707	0.0207707	0.0207707	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0180828	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0171198	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	0.0177576	
5455.91	5456.06	5461.19	5464.3	5471.12	5465.8	5467.45	5475.82	5472.78	5477.51	5475.27	5485.01	5483.01	5487.35	5489.7	5485.01	5494.56	5496.86	5492.23	5492.55	5499.47	5497.38	5505.67	5525.72	5532.69	5548.77	5540.68	5512.91	5524.53	5525.3	5518.69	5533.7	5530.29	5534.64	5544.31	5549.76	5535.92	5548.11	5576.84	5588.49	5580.14	5584.03	
5.68162E+13	5.63276E+13	5.63276E+13	5.63276E+13	5.65074E+13	5.65074E+13	5.65074E+13	5.65611E+13	5.65611E+13	5.65611E+13	5.65611E+13	5.65611E+13	5.52675E+13	5.5002E+13	5.5002E+13	5.4816E+13	5.4816E+13	5.4816E+13	5.41076E+13	5.41076E+13	5,41076E+13	5.36713E+13	5.4543E+13	5,4543E+13	5.4543E+13	5.4543E+13	5.38779E+13	5,53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5.53825E+13	5,53825E+13	5,44713E+13	5,44713E+13	5,44713E+13	5.38389E+13	5.38389E+13	5.38389E+13	5.38389E+13	5,38389E+13	5.38389E+13	The state of the s
D.	177 6.35303E+12	177 6.35303E+12	77 6.35303E+12	78 6.35303E+12	78 6.35303E+12	178 6.35303E+12	84 6.35303E+12		84 6.35303E+12	184 6.35303E+12	84 6.35303E+12	185 6.35303E+12		86 6.35303E+12				88 6.35303E+12	88 6.35303E+12	88 6.35303E+12	90 6.35303E+12	93 6.35303E+12	93 6.35303E+12	93 6.35303E+12										96 6,35303E+12		97 6.35303E+12	97 6.35303E+12	97 6.35303E+12	97 6.35303E+12	97 6.35303E+12	97 6.35303E+12	
	32:44.5 574377		42:50.1 574377	47:53.0 574378		57:58.7 574378	03:32.3 574384	1.1	13:38.2 574384	18:41.2 574384	23:44.5 574384							59:04.8 574388	04:07.9 574388	09:11.2 574388	14:14.7 574390	19:17.4 574393												19:54.1 574396		30:00.1 574397	35:03.1 574397	40:06.4 574397	45:09.5 574397	50:12.8 574397	55:16.0 574397	0000000

574400 6.35303E+12 5.1 574400 6.35303E+12 5.1	5.19602E+13 5.19602E+13	5558,15	0.0179634	0.0197059	0.079845	0.5557876 0.609701 2.4333473 0.5557876 0.612417 2.4418187	2.4333473
574400 6.35303E+12 5.19602E+13 5579.19	5579.19		0.0179634	0.019798	0.0801472	0.61255	2.4425586
6.35303E+12	5571.72		0.0179634	0.0199501	0.0808744	0.5557876 0.617256 2,4647197	2,4647197
6.35303E+12	5570.01		0.0179634	0.0199163	0.0808496	0.5557876 0.61621 2.4639632	2.4639632
6,35303E+12 5.15991E+13	5590.6		0.0179634	0.0206372	0.0808732	0.5557876 0.638515 2.4646821	2.4646821
6.35303E+12 5.16659E+13	5618.11		0.0179634	0.0201332	0.0811661	0.622921 2	2.4736097
5/4404 6.35303E+12 5.22163E+13 5610.56 574404 6.35303E+17 E 442325E+13 5650.03	5610.56		0.01/9634	0.0220943	0.0802027	0.683598	2.444248
6.35303E+12 5.44332E+13	5657.45		0.0179634	0.0201063	0.0775791	0.555/8/6 0.624546 2.3649536	2,3649536
6.35303E+12 5.44179E+13	5681.44		0.0187756	0.0190108	0.0779301	0.588194	2.3749899
5,43366E+13	5664.77		0.0187756	0.0196478	0.0778177	0.607903	2.3715634
	5675.15		0.0187756	0.019932	0.0777209	0.5809171 0.616696 2.368615	2.368615
6.35303E+12 5.45039E+13	5712.4		0.0187756	0.0201859	0.0782311		2.3841619
6.35303E+12 5.45039E+13	5686.74		0.0187756	0.0225242	0.0778796	0.5809171 0.696899 2.3734522	2.3734522
6.35303E+12 5.4739E+13	5682.68		0.0187756	0.0206965	0.0774898	0.64035	2,3615721
6.35303E+12 5.4739E+13	5696.73		0.0187756	0.0215966	0.0776814	0.668199	2.3674109
6.35303E+12 5.4739E+13	5721.55		0.0187756	0.0216764	0.0780199	0.5809171 0.670668 2.3777254	2.3777254
6.35303E+12 5.4739E+13	5723.36		0.0187756	0.0214227	0.0780445	0.5809171 0.662818 2.3784776	2.3784776
6.35303E+12 5.4739E+13	5753.44		0.0187756	0.0229512	0.0784547		2.3909781
6.35303E+12 5.4739E+13	5751.61		0.0187756	0.0234893	0.0784298	0.5809171 0.726759 2.3902176	2.3902176
6.35303E+12 5.33495E+13	5783.15		0.0187756	0.0444265	0.0809138	0.5809171 1.374556 2.465921	2.465921
6.35303E+12 5.33495E+13	5778.34		0.0236295	0.0250626	0.0808465	0.7310967 0.775437 2.46387	2.46387
6.35303E+12 5.33495E+13	5717.03		0.0236295	0.0224619	0.0799887	0.694971	2.4377276
6.35303E+12 5.33495E+13	5720.45		0.0236295	0.0232839	0.0800365	0.720404	2.4391858
6.35303E+12 5.25253E+13	5714.68		0.0236295	0.0234838	0.0812103	0.726589	2.4749582
5,25253E+13 5,31,49 5,25253E+13 5,31,49 5,234,13 6,35302E,43 F,31302E,43 6,35302E,43	5/31.49		0.0236295	0.0221/46	0.0814492	0.686082	2.4822384
6.35303E+12 5.19701E+13	5734.99		0.0236295	0.0253002	0.0823697	0.7310967 0.782788 2.5102894	2,4786004
574414 6.35303E+12 5.19701E+13 5744.23	5744.23		0.0236295	0.0255777	0.0825024	0.791374	2.5143339
6.35303E+12	5727.36		0.0236295	0,0254854	0.0823371	0.7310967 0.788518 2.5092973	2.5092973
574418 6.35303E+12 5.19586E+13 5734.35	5734.35		0.0236295	0.0224637	0.0823788	0.7310967 0.695027 2.510567	2.510567
6.35303E+12 5.25895E+13	5710.56		0.0236295	0.036317	0.0810529	0.7310967 1.123648 2.4701587	2.4701587
6.35303E+12 5	5677.64		0.0236295	0.023519	0.0806102	0.7310967 0.727678 2.4566683	2.4566683
574422 6.35303E+12 5.2543E+13 5686.55	5686.55		0.0268916	0.0219254	0.0807834	0.8320261 0.678372 2.4619458	2,4619458
574423 6.35303E+12 5.29406E+13 5686.98	5686.98		0.0268916	0.0218438	0.0801828	0.8320261 0.675847 2.4436417	2.4436417
574424 6.35303E+12 5.28202E+13 5690.22	5690.22		0.0268916	0.0219166	0.0804113	0.8320261 0.6781 2.4506078	2.4506078
574424 6.35303E+12 5.28202E+13 5676.93	5676,93		0.0268916	0.0283	0.0802235	0.8320261 0.875602 2.4448842	2,4448842
574426 6.35303E+12 5.30049E+13 5683.45	5683.45		0.0268916	0.0487112	0.0800358	0.8320261 1.507125 2.4391635	2,4391635
574426 6.35303E+12 5.30049E+13 5679.11	5679.11		0.0268916	0.2372194	0.0799747	0.8320261 7.339568 2.4373009	7.3395682
574427 6.35303E+12 5.28466E+13 5693.6	5693.6		0.0268916	0.2295848	0.0804189	0.8320261 7.103354 2.4508373	7.1033537
574427 6.35303E+12 5.28466E+13 5702.84	5702.84		0.0268916	0.0489678	0.0805494	0.8320261 1.515064 2.4548147	2.4548147
6.35303E+12 5.2354E+13	5719.96		0.0268916	0.0279098	0.0815514	0.8320261 0.863529 2.4853515	2,4853515
574428 6.35303E+12 5.2354E+13 5723.27	5723.27		0.0268916	0.0281961	0.0815986	0.8320261 0.872387 2.4867897	2,4867897

5/4428 6.353U3E+12	0.500		0.070				
	5 1563/E+13	5701 89	0.0058916	CC10100	EON 7000 O	COOKETE COCCUENCY TOCOCCO C	70004747
574429 6.35303F+12	5.15634F+13	5699.76	0.022333	0.0225376	0.0825403	0.742330	
	5.15634E+13	5710.93	0.0275399	0.0233152	0.0826711	0.721372	
6.35303E+12	5.12815E+13	5715.01	0.0275399	0.0234875	0.0831849	0.726703	7
6.35303E+12	5.12815E+13	5705.63	0.0275399	0.0238366	0.0830483	0.737504	
6.35303E+12	5.12815E+13	5712.82	0.0275399	0.0238261	0.083153	0.8520845 0.73718 2.5341619	
6.35303E+12	5.12815E+13	5735.12	0.0275399	0.0239167	0.0834776	0.8520845 0.739983 2.54	2.544054 2.544054
6.35303E+12	5.12815E+13	5742.14	0.0275399	0.024794	0.0835797	0.8520845 0.767126 2.54	2.547168 2.547168
6.35303E+12	5.12815E+13	5731.9	0.0275399	0.0244682	0.0834307	0.8520845 0.757046 2.5426257	6257 2.5426257
6.35303E+12	5.12815E+13	5731.35	0.0275399	0.0248106	0.0834227	0.8520845 0.76764 2.5423817	3817 2.5423817
6.35303E+12	5.12815E+13	5726.26	0.0275399	0.047908	0.0833486	0.8520845 1.482274 2.5401238	1238 2.5401238
574432 6.35303E+12	4.99455E+13	5722.76	0.0275399	0.0287109	0.0855259	0.8520845 0,888315 2,6064774	4774 2.6064774
6.35303E+12	4.99455E+13	5706.12	0.0275399	0.0476729	0.0852772	0.8520845 1.475 2.5988986	8986 2.5988986
6.35303E+12	4.98413E+13	5718.48	0.027516	0.0268482	0.0856405	0.851345 0.830683 2.6099708	9708 2.6099708
6.35303E+12	4.97656E+13	5722.49	0.027516	0.0239382	0.085831	0.851345 0.740648 2.6157766	
6.35303E+12	4.97656E+13	5731.99	0.027516	0.024889	0.0859735	0.851345 0.770066 2.6201191	-
6.35303E+12	4.98823E+13	5729.41	0.027516	0.0274338	0.0857336	0.851345 0.848802 2.6	2.61281 2.61281
6.35303E+12	4.9928E+13	5727.98	0.027516	0.0263334	0.0856339	0.851345 0.814755 2.6097702	7702 2.6097702
6.35303E+12	4.9928E+13	5745.01	0.027516	0.0483259	0.0858885	0.851345 1.495203 2.6175294	5294 2.6175294
6.35303E+12	5.04581E+13	5733.7	0.027516	0.027147	0.0848189	0.851345 0.839928 2.5849309	9309 2.5849309
6.35303E+12	5.04581E+13	5748.11	0.027516	0.0269173	0.085032	0.851345 0.832821 2.5914274	4274 2.5914274
6.35303E+12	5.28842E+13	5748.64	0.027516	0.048425	0.0811386	0.851345 1.49827 2.4727723	2.4727723
6.35303E+12	5.28842E+13	5745.02	0.027516	0.0346966	0.0810875	0.851345 1.073513 2.4712151	2151 2.4712151
6.35303E+12	5.28842E+13	5746.74	0.027516	0.026743	0.0811118	0.851345 0.827428 2.47	2.471955 2.471955
6.35303E+12	5.28228E+13	5739.99	0.027516	0.0256215	0.0811107	0.851345 0.792729 2.4719226	9226 2.4719226
6.35303E+12	5.28228E+13	5735.16	0.0300224	0.0258636	0.0810425	0.9288931 0.80022 2.4698426	8426 2.4698426
6.35303E+12	5.28228E+13	5751.51	0.0300224	0.0247336	0.0812735	0.9288931 0.765258 2.4768837	8837 2.4768837
6.35303E+12	5.28228E+13	5760.39	0.0300224	0.0249539	0.081399	0.9288931 0.772074 2.4807079	7079 2.4807079
6.35303E+12	5.28228E+13	5759.7	0.0300224	0.0252528	0.0813893	0.9288931 0.781322 2.4804107	4107 2.4804107
6.35303E+12	5.21447E+13	5765.94	0.0300224	0.0251079	0.0825368	0.9288931 0.776838 2.5153845	3845 2.5153845
6.35303E+12	5.19166E+13	5760.01	0.0300224	0.028066	0.0828144	0.9288931 0.868362 2.5238421	8421 2.5238421
6.35303E+12	5.17083E+13	5752.55	0.0300224	0.0345945	0.0830402	0.9288931 1.070354 2.5307244	7244 2.5307244
6.35303E+12	5.17083E+13	5767.39	0.0300224	0.0278833	0.0832544	0.9288931 0.862709 2.53	2.537253 2.537253
6.35303E+12	5.17083E+13	5759.99	0.0300224	0.0266611	0.0831476	0.9288931 0.824894 2.5339975	9975 2.5339975
6.35303E+12	5,19511E+13	5756.94	0.0300224	0.0267976	0.0827151	0.9288931 0.829118 2.5208172	27180252 2718
6.35303E+12	5.19511E+13	5735.1	0.0300224	0.0267019	0.0824013	0.9288931 0.826157 2.51	2.511254 2.511254
6.35303E+12	5.19511E+13	5719.45	0.0300224	0.0300539	0.0821764	0.9288931 0.929868 2,5044012	4012 2.5044012
6.35303E+12	5.19511E+13	5702.8	0.0292181	0.0270051	0.0819372	0.904008 0.835538 2.4971106	1106 2.4971106
6.35303E+12	5.17328E+13	5699,65	0.0292181	0.0251577	0.0822376	0.904008 0.778379 2.5062642	2642 2.5062642
6.35303E+12	5.16724E+13	5715.01	0.0292181	0.0257413	0.0825556	0.904008 0.796436 2.5159564	9564 2,5159564
6.35303E+12	5.16724E+13	5715,9	0.0292181	0.0260754	0.0825685	0.904008 0.806773 2.5163482	3482 2.5163482
6.35303E+12	5.16724E+13	5710.01	0.0292181	0.0257615	0.0824834	0.904008 0.797061 2.5137552	7552 2.5137552
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